

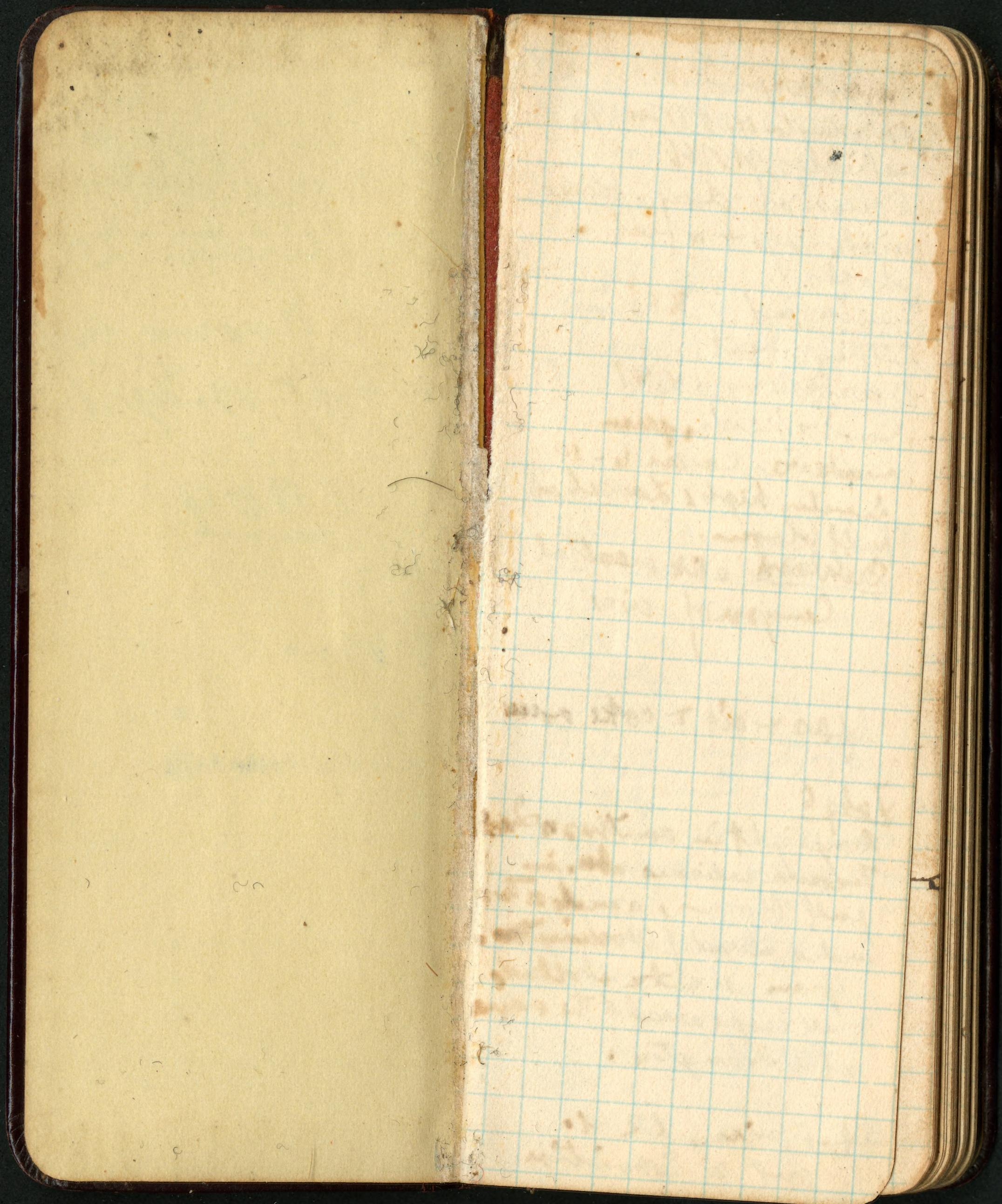
1904  
July 4 - Dec. 19  
New Mexico  
Texas - Big Thicket

Vernon Bailey  
Washington D.C.  
1834, Kalorama Ave  
or Dept. of Agrl.

1904

Vernon Bailey,  
U. S. Dept. of Agrl

1834 KALORAMA AVE



July 4, 1904

Left Washington 11.05 A.M. by  
bus to Kansas, N.M.

A clear hot day, fields  
rich, rye + wheat in  
stocks

Cumberland 8.05

Cutting wheat

Deer Park 4.41

Cool + fresh, green  
mustard, corn 6-10  
inches high, Laurel in  
full bloom.

Oakland still beautiful

Canyon of rivers

Gas + oil + coke areas

July 5

Daylight in southern Ind.  
Zenobia radicans abn. in  
full bloom, a week or two  
weeks ahead of Washington.

Grain all cuts sown,  
& all crops ahead of the same  
at Washington.

St. Louis, 12 M.  
out to Exposition

July 6 Kansas City at  
8 AM. Mo. Pac.  
Rivers high.

Topeka 12

Osage City,

A few western plants

Floods all along  
the Cottonwood R.

July 7.

Tipton, daylight

Sarcobatus abn

Atroplex canescens

Bigoovia

Tetradymia

Gutierrezia

Atriplex confertifolia

Eurotia lanata ?

Opuntia arborescens

Cottonwood along streams

Willows a

Spirea hastata

Artemisia

Alfalfa good

Apples u

Cherries u

Pueblo, July 7.

Out to park east of town

*Opuntia arborescens*, abn. in flower

" flat, white spines, abn.

*Yucca glauca*, on hill

*Atriplex canescens* abn.

" *confertifolia* abn.

*Artemisia* dwarf on hills.

*Gutierrezia euthamiae?* abn.

*Malvastrum munroanum*

*Argemone*

*Mentzelia*

*Dalea* little yellow

Gramma grass

Pueblo July 7.

*Sturnella neglecta*

*Icterus bullocki*

*Pica hudsonica* - 10 mi. E. town

*Chondestes v. leucoryphus* a few

*Chondestes*

*Carpodacus frontalis* "

*Spizella breweri* 1

*Dendroica aestiva* in park

*Contopus richardsoni* 2 "

*Tyrannus verticalis* 2 "

*Mimus palliatus* 2

*Zenaidura* com

*Calipepla squamata* 1

*Passer domesticus* abn.

July 8

Left Pueblo at 12:20 AM.  
Walsenburg, still dark

Zalata Pass on station 9242  
averages 9300 + 10400

*Pinus murrayana*

*Abies*

*Picea*

*Populus tremuloides*

*Arctostaphylos uva-ursa*

*Salix*

big park, meadows,  
little stream, & springs  
A beautiful place to camp  
*Cyrtomyces geminoni*

Lower down on warm slopes

*Pinus ponderosa*

*Pseudotsuga*

*Betula occidentalis oblongifolia*

*Astomisia tridentata*

*Juniperus*

~8500 ft.

*Pinus monophylla*

" "

*Cercocarpus*

" "

*Populus angustifolia*

" "

*Garland*

8300

Upper San Juan plain

*Sarcobatus*

*Bigelowia*

*Lepus campestris*

*Zenaidura*

*Opuntia*

white spined

*Gutierrezia*

*Lepus campestris* 4

*Cyrtomyces geminoni* com

*Alausa* L-15,

7900

Antonito

8250

Side of Rte Peak

8800

Tres Piedras

8500

Corrected + set <sup>29:55</sup> (8088)

8088

Brake of Canyon

7100

Toll House

6450

Top of mesa

7400

Taos

7000, 7100

July 9. Out to Martinez

July 10 Sunday,

Staid at Phillips' place

Went out to Pueblo to meet

head men for talk.

July 11,

Out to camp above Pueblo  
Aneroid 7100 in Taos  
" 7400 at camp

July 12 To Taos & back.

July 14 Camp 7 7400

Mouth of Lorenzo Canyon 8300

|   |                             |
|---|-----------------------------|
| <i>Juniperus</i>                        | - 8000 <sup>NE</sup>        |
| <i>Pinus edulis</i>                     | - 8500 SW                   |
| <i>Abies concolor</i>                   | - 8500 <sup>NE</sup> 10     |
| <i>Picea pungens</i>                    | 8200 <sup>NE</sup> 10500 SW |
| <i>Pinus flexilis</i>                   | 8200 <sup>NE</sup> 10500 SW |
| <i>Pseudotsuga</i>                      | 8200 <sup>NE</sup> 10500 SW |
| <i>Acer glabrum</i> <sup>abietina</sup> | 8300 -                      |
| <i>Populus angustifolia</i>             | - 8300?                     |
| <i>Cornus</i>                           |                             |
| <i>Alnus</i>                            | 7200 -                      |
| <i>Betula</i>                           | - 8300                      |
| <i>Philadelphus</i>                     | 8300 -                      |
| <i>Quercus</i>                          | 7200 - 10100                |
| <i>Rhus aromatica</i>                   | - 8500 SW                   |
| <i>Ribes cereum</i>                     | - 10100                     |
| "                                       | black                       |
| " <i>divaricatum</i>                    | 7400 -                      |
| <i>Physocarpus</i>                      |                             |
| <i>Populus tremuloides</i>              | 8300 <sup>NE</sup> -        |
| <i>Anemone</i>                          | - 10100                     |
| <i>Circocarpus</i>                      | 7500 - 8500                 |
| <i>Prunus</i>                           | 7200 - 10100                |
| <i>Barberis</i> <i>spinosa</i>          | 8400 <sup>SW</sup> 10000 SW |
| <i>Pachystima</i>                       | " -                         |
| <i>Pinus ponderosa</i>                  | 8500 <sup>SW</sup> - 10100  |
| <i>Rubus</i> <i>watsonii</i>            | 8300 -                      |
| <i>Arctostaphylos</i> <i>manzanita</i>  | 8500 - 10000 SW             |

|                          |        |              |
|--------------------------|--------|--------------|
| Rosa                     |        | -10100       |
| Pteris                   |        | 8300-7000    |
| Catheaanthos             |        | 8300-        |
| Fragaria speciosa        |        | 8900-10500   |
| Vaccinium                |        | " -11000     |
| • Lonicera involucrata   |        | " -          |
| • Symphoricarpos         |        | 7400 - 10100 |
| • Aquilegia canadensis   |        | 9400 - 11000 |
| Callospermophilus        |        | 8500-        |
| Cyanocitta               |        | -            |
| Civellus                 |        | -            |
| Dendrocygna              | ya     | 9500         |
| Coturnix fasciata        |        | 9900         |
| Thomomys                 |        | "            |
| Sciurus perus            |        | 7400-        |
| Accipitrian              |        | 7400-        |
| Potentilla fruticosa     |        | 9900 -       |
| Ribes                    | spiny  | 9900-        |
| " sanguineum             |        | 1000-        |
| Orthocarpus              | yellow | 9900-        |
| Sambucus                 |        | 9500 -       |
| Pyrus sambucifolia       |        | - -          |
| Wyethia                  | orange | 9900 -       |
| Dodonea cuneata          |        | 10000 -      |
| Saxifraga punctata       |        | "            |
| Pedicularis groenlandica |        | 10500 -      |
| Cathea leptophala        |        | " -          |
| Vaccinium microphyllum   |        | " -          |
| Genus triflorum          |        | 11           |
| Rhododendron             |        | "            |

|                    |         |               |
|--------------------|---------|---------------|
| Rhododendron       |         | 10500-        |
| Polygala vivipara  |         | "             |
| Lithothamnion      |         | "             |
| Schusteria         |         | "             |
| Myrsinaria alpina  |         | "             |
| Polygonum bistorta |         | "             |
| <u>Bear Lake</u>   |         | 12000         |
| <u>Twin Lakes</u>  |         | 12300         |
| <u>Ridge</u>       |         | 12700         |
| Myioctes           |         |               |
| Silene             |         |               |
| Phlox              |         |               |
| Arinaria           |         |               |
| Orthocarpus        |         | crimson       |
| Genus rossi        |         |               |
| <u>Pines</u>       |         |               |
| Pinus aristata     |         | 12000 - 12300 |
| Abies lasiocarpa   |         | 10500 -       |
| Picea engelmanni?  |         | - "           |
| Pinus ponderosa    | sw      | - 10100       |
| Abies concolor     |         | - 10500       |
| Picea sanguinea    |         | - "           |
| Gilia aggregata    |         | - 10100       |
| Pentstemon         | scarlet | - -           |
| Ceratostylis       |         | - 10000       |
| Cercocarpus        |         | - 9800        |

|                             |                       |
|-----------------------------|-----------------------|
| <i>Populus angustifolia</i> | - 8500                |
| <i>Pinus edulis</i>         | - 8700 <sup>500</sup> |
| <i>Juniperus</i>            | - 8700 <sup>500</sup> |
| <i>Acn glabra</i>           | - 8500                |
| <u>Camp - badito, 7700</u>  | -                     |

7400 feet

July 18 Camp, above Pueblo  
*Populus angustifolia*  
*Picea pungens* a few by stream  
*Ribes cereum* "  
*Pseudotsuga* "  
*Juniperus* "  
*Pinus edulis*,  
*Alnus*  
*Salix*  
" "  
*Neurolepis variegata*  
*Prunus virginiana*  
" <sup>plum</sup>  
*Clavétia*  
*Quercus gambelii*  
*Acn glabra*  
*Rosa*  
*Fallugia paradoxa*  
*Cercocarpus parviflorus*  
*Artemisia tridentata*  
*Bigelowia parviflora*  
*Glyceria apiculata*  
*Salix tristis* abn.  
*Tapinella*  
*Apocynum*  
*Symplocarpus*  
*Rhus trilobata*  
*Ribes cereum*  
" <sup>cl. irriguer</sup>

## Iaos

|                                     |           |
|-------------------------------------|-----------|
| <i>Ardea herodias</i>               | 1         |
| <i>Falco sparverius</i>             |           |
| " <i>mexicanus</i> 1 in canyon      |           |
| <i>Micrastur</i>                    | scarce    |
| <i>Zenaidura macroura</i>           | abs.      |
| <i>Columba fasciata</i>             | reported  |
| <i>Corvus americanus</i>            | old yg.   |
| <i>Agelaius</i>                     | com       |
| <i>Molothrus</i>                    |           |
| <i>Scoloposthagys cyanocephalus</i> | scarce    |
| <i>Apalilocoma</i>                  | com       |
| <i>Cyanocitta</i>                   | in canyon |
| <i>Sturnella neglecta</i>           | com       |
| <i>Otocoris</i>                     | "         |
| <i>Coturniculus baudinianus</i>     | "         |
| <i>Pooecetes</i>                    | "         |
| <i>Cloudistes</i>                   | "         |
| <i>Carpodacus ponticus</i>          | "         |
| <i>Passer domesticus</i>            | in town   |
| <i>Crax</i>                         | west      |
| <i>Pipilo regulus</i>               | com       |
| " <i>mesoleucus</i>                 | 2         |
| <i>Habia fuscicauda</i>             | 1         |
| <i>Gaurica c. lugubris</i>          | 2         |
| <i>Passerina amoena</i>             | com       |
| <i>Astragalinus psaltria</i>        | "         |
| <i>Chlidonias</i>                   | "         |
| <i>Pithecophorus</i>                | "         |
| <i>Tachycineta thalassina</i>       | "         |

## Vinos swainsoni

"

### Empidonax

"

|                                |              |
|--------------------------------|--------------|
| <i>Dendroica aestuans</i>      | ap. forested |
| <i>Geothlypis trichas</i>      | com          |
| <i>Icteria v. longicauda</i>   | "            |
| <i>Mimus macrourus</i>         | "            |
| <i>Gabassus carolinensis</i>   | scarce       |
| <i>Oreoscoptes</i>             | com          |
| <i>Sphyrapicus ruber</i>       | com          |
| <i>Trochocercus d. cyaneus</i> | nest         |
| <i>Sialia arctica</i>          |              |
| <i>Urolophus v. propinquus</i> | com          |
| <i>Pica p. sinuata</i>         | reported.    |
| <i>Chordiles v. henryi</i>     | com          |
| <i>Phalaenoptilus</i>          | scarce       |
| <i>Turdus auduboni</i>         | com          |
| "                              |              |
| <i>Parus septentrionalis</i>   |              |
| " <i>pubescens</i>             |              |
| <i>Psaltriparus</i>            |              |



|                               |             |        |
|-------------------------------|-------------|--------|
| <i>Polygonum vivipara</i>     |             |        |
| " <i>bistorta</i>             |             | -13500 |
| <i>Clatocarpus megarrhiza</i> | 13000       | "      |
| <i>Artemisia</i>              |             | "      |
| <i>Ligusticum eastwoodi</i>   | 11400       | "      |
| <i>Artem.</i>                 |             | "      |
| <i>Polygonatum confertum</i>  | 12000-13300 | "      |
| <i>Orthocarpus</i>            | 11800-13500 | "      |
| <i>Salix reticulata</i>       | 11400-13300 | "      |
| <i>Delphinium</i>             | 11850-1300  | "      |
| <i>Physocarpus</i>            | 12000-13500 | "      |
| <i>Epiphragma flagellum</i>   |             | -Top   |
| " <i>yellow.</i>              |             | "      |
| " <i>nivale</i>               |             | "      |
| <i>Paronychia pulvinata</i>   |             | "      |

|  |                 |             |
|--|-----------------|-------------|
| Camp at lake, July 22                        |                 |             |
| <i>Abies lasiocarpa</i>                      |                 | -12000      |
| <i>Picea engelmanni</i>                      |                 | "           |
| <i>Salix pungens</i>                         | gray leaf       | -12000      |
| "  | green leaf      | " "         |
| " <i>reticulata</i>                          | " <i>minima</i> | 11400-13500 |
| " <i>Juniperus communis</i> or <i>alpina</i> |                 | " -12500    |
| " <i>Lonicera involucrata</i>                |                 | -12000      |
| <i>Potentilla fruticosa</i>                  |                 | -12500      |
| <i>Vaccinium microphyllum</i>                |                 | -12400      |
| <i>Ribes wolfii</i>                          |                 | -11500      |
| " <i>coloradense</i>                         |                 | 12400       |
| <i>Veratrum</i>                              |                 | 12000       |
| <i>Aquilegia caerulea</i>                    |                 | 10000-12500 |
| <i>Polygonum bistorta</i>                    |                 | 13700       |
| " <i>iripare</i>                             |                 | "           |
| <i>Geum rossii</i>                           |                 | "           |
| <i>Potentilla</i>                            |                 | "           |
| <i>Gentiana parryi</i>                       |                 | -12700      |
| <i>Schwertia peruviana</i>                   |                 | 11400-12000 |
| <i>Achillea</i>                              |                 | 11400-12500 |
| <i>Sibaldia procumbens</i>                   |                 | 13700       |
| <i>Veronica</i> big leaf (6 D)               |                 | -13000      |
| <i>Antennaria</i>                            |                 | "           |
| " "  |                 | "           |
| <i>Stellaria</i>                             |                 |             |
| <i>Rock fern</i>                             | 2               |             |
| <i>Epilobium</i>                             |                 | -12200      |
| <i>Fragaria glauca</i>                       |                 | -12000      |
| <i>Pentstemon grallaria</i>                  |                 | -12400      |

|  |            |                |
|--|------------|----------------|
| • <i>Helenium</i> ?                      | green leaf | 11400-13700    |
| • <i>Myrtusia</i> <i>spinosa</i>         |            | 12700-13700    |
| • " "                                    | glauca     | 11400-13700    |
| • <i>Saxifraga bronchialis</i>           |            | " - "          |
| • " " <i>punctata</i>                    |            | -12000         |
| • <i>Hüchera</i> <i>nivalis</i>          |            | 11400-13700+   |
| • " " <i>nivalis</i>                     |            | -12400         |
| • <i>Castilleja</i>                      | yellow     | -12700         |
| • " "                                    | red        | -12000         |
| • <i>Rhodiola polyantha</i>              | big red    | -13700         |
| • <i>Clementina rhodantha</i>            |            | 10700-         |
| • <i>Sedum</i> yellow                    |            | 11400 - 13700  |
| • <i>Caltha leptosepala</i>              |            | -12500         |
| • <i>Aralia</i>                          |            | 11400 - "      |
| • <i>Crinum erythrorhizon</i> ?          |            | 11400-12500    |
| • <i>Geranium</i>                        |            | -12000         |
| • <i>Ligusticum eastwoodiae</i>          |            | 11400 - 13700  |
| • <i>Osmunda</i>                         | brown      | -12500         |
| • <i>Erigeron</i>                        | little blu | -13700         |
| • " "                                    | " white    | "              |
| • <i>Pedicularis groenlandica</i>        |            | 13000          |
| • " "                                    | racemosa   | -12000         |
| • " "                                    | yellow     | 13000          |
| • <i>Zygadenus</i>                       |            | -12200         |
| • <i>Solidago</i>                        |            | -12400         |
| • <i>Campanula</i>                       |            | -12000         |
| • <i>Polemonium</i> <i>verticillatum</i> |            | -13000         |
| • <i>Tephroseris</i>                     | green leaf | 11400 - -11700 |
| • <i>Achillea</i>                        |            | -12200         |
| • <i>Sambucus</i>                        |            | -12200         |
| • <i>Primula parryi</i>                  |            | - "            |

|  |              |         |
|--|--------------|---------|
| July 23 Camp 9. 11400                          |              |         |
| <u>Mivers camp</u>                             |              | 10600   |
| • <i>Populus tremuloides</i>                   |              | "       |
| • <i>Alnus glabra</i>                          |              | - "     |
| • <i>Rubus setchuanus</i>                      |              | - "     |
| • <i>Saxifraga cordata</i>                     |              | - 10400 |
| <u>Twinning</u>                                | 10000        |         |
| W. <del>g. then</del>                          |              | - 10000 |
| Quercus  |              | - 9600  |
| <i>Amlanchier</i>                              |              | - "     |
| <i>Chokeberry</i>                              |              | "       |
| <i>Pseudotragea</i> 3% - open                  | "            | "       |
| <i>Ostrya virginiana</i>                       |              | - 10000 |
| <i>Prunus pensylvanica</i>                     |              | - "     |
| <i>Arbutus</i>                                 |              | - 10100 |
| <i>Symplocos</i>                               |              | 9600    |
| <i>Aretostaphylos</i>                          |              | - 9600  |
| <i>Daphne</i> <i>hirsutissima</i> , tall, pale | "            | "       |
| <i>Picea glauca</i> , <i>taiga</i>             |              | - 10400 |
| <i>Rosa</i>                                    | 5000 - 10400 |         |
| <u>Angott</u>                                  | 9500         |         |
| • <i>Aquilegia</i>                             | red 1        | - 10600 |
| • <i>Limnaea porotis</i>                       |              | "       |
| • <i>Zygadenus</i>                             |              | 10600 - |
| <u>Yellow</u>                                  | 10800        |         |
| • <i>Veronica</i>                              |              | 10600   |
| • <i>Caltha leptosepala</i>                    |              | 10800   |
| • <i>Przygala picta</i>                        |              | "       |
| • <i>Pedicularis groenlandica</i>              |              | "       |
| <u>gracilis</u>                                | 10600        |         |

|                     |            |
|---------------------|------------|
| Picocorvus          | 10600      |
| Hegemony            | 10000      |
| Zenaidura thomasi   | 9500       |
| Empidonax           | 2 - 9500   |
| Turdus              | 2 9400     |
| Pitanga hiduvine    | 9500-10200 |
| Sialla aratice      | - 9500     |
| Vireo               | 2 10000    |
| Dryobates pubescens | 1 "        |
| Cyanocitta          | "          |
| Parus gambeli       | 10500      |
| Zonotrichia         |            |
| Juncos              |            |
| Perisoreus          |            |
| Certhia             | 11200      |
| <u>Back to Camp</u> | 11650.     |

#### July 24

|                        |                  |
|------------------------|------------------|
| Circus                 | at lake          |
| Myadestes              | at camp 12200    |
| Picicorvus             | to 13300         |
| Zonotrichia leucophrys | - 12400          |
| Merula m. propinqua    | - "              |
| Corvus corax sinuatus  | 13500            |
| Aquila chrysaetos      | 1 "              |
| Centrocercus           | abn. 12400-13700 |

|                        |          |
|------------------------|----------|
| Taigopus altipennis    | 13500    |
| Laniocerthia australis | 13300    |
| Pinicola               | at 10700 |

|                     |       |       |
|---------------------|-------|-------|
| July 24 Camp        | -     | 11400 |
| Timberline          |       | 12200 |
| Extreme upper scrub |       | 12500 |
| Fox                 | 12200 |       |
| Hops by creek       | 12700 |       |

|          |            |         |
|----------|------------|---------|
| Erythron | big white  | - 12000 |
| !        | big purple | - "     |
| 'celery' |            | - "     |

|              |       |
|--------------|-------|
| July 25 Camp | 11500 |
| Wheeler Peak | 13900 |
| back to camp | 11600 |

|                     |               |
|---------------------|---------------|
| Pervilia            | - 12000       |
| Gentiana variabilis | 11400 - 12000 |
| " frigida           | " - "         |

Regular satrapa 2 at 10700  
 Corpodaeus cassini a pair at 9500.  
 Buteboralis Col. a pair at 11000.

Aug. 2, down to Meadow

Baronets at meadow 10700

Plants in meadow

- *Salix* green leaf 785
- " gray 184
- *Potentilla fruticosa*
- *Caltha leptosepala*
- *Pedicularis groenlandicus*
- *Primula*
- *Saprophaga punctata*
- *Aconitum*
- *Schwertia perrenis*
- *Gentiana parryi*
- " *errata*
- " *variabilis*

Celery

- *Carum* "oppo"
- *Polygonum vivipari*
- " *bistorta*
- *Rhodiatherma*

Veratrum a little

Timothy

Veronica slender

• *Geum triflorum*

• *Potentilla 'canescens'*?

a little

Companula

Erigeron

"

blue

white

Cinclus trigonophyllum

In woods + uplands

- *Picea*

- *Abies lasiocarpa*
- *Populus tremuloides* - on sh. alderator
- *Ionicera involucrata*
- *Ribes wolfi*
  - coloradense
- *Vaccinium microphyllum*
- *Pachystima myrsinoides*
- *Juniperus communis*
- *Pyrola secunda?*
- *Pedicularis racemosa*
- *Solidago*
- *Potentilla gracilis*
- *Fragaria glauca*
- *Arnica*
- *Achillea millefolium*
- *Myrsinaria* green leaf
- *Monoclea uniflora*
- *Limnaea borealis*

- -10600

Aug. 4. Camp 9 AM 10700

Twining (est) 9900

Tachinita tallaeus nest at 10300 SW

Eupidross difficilis abt 10700

Vireo swainsoni - -

Pinus aristata 11000<sup>SW</sup> -

Populus tremuloides - 11000<sup>SW</sup>

Sawmill 11100 (no off. Camp) 8150

Summit 11200 (off) 7900

### Brick Kiln

Cleome

Mentzelia

Ceanothus

Camp at old mill

8500

"

"

"

8250

Aug. 8 Camp, 11 AM 10700

Twining 12 a 9850

Desert 9400

Aries canescens - 8000

Pseudotsuga - 9600

Pinus flexilis - 94000

" ponderosa <sup>at</sup> 9200 <sub>con. in bottom 9000</sub>

Alnus

Betula a few to 9000

Picea pungens - 9200

Ribes L. irregue "

Cornus aspreolia "

Pentstemon salet "

Marsdenia "

Physocarpus "

Pyrus eriobotrya 91000 100000

Populus angustifolia - 9000

Stephania "

Baccharis - a few - 9600<sup>SW</sup>

" " <sub>con. in bottom 9000</sub>

Griffithsia 8400

### Aug 8 Camp

8450

" 8500<sup>SW</sup>

" "

" "

" 8500<sup>SW</sup>

Pinus edulis

Juniperus utahensis

" " Pacifica?

Cercocarpus parviflorus

Philadelphus

Ribes leptanthum

" " crum

Berberis (spatulata)

Clematis

Rosa

Physocarpus

Lupinus

Asterinda tridentata

Ribes leptanthum

Toll House

Camp

Hodirens

8250

8200

|                                 |      |
|---------------------------------|------|
| Aug. 12. Camp                   | 8050 |
| • <i>Bigelovia canescens</i>    |      |
| • <i>Argemone platyceras</i>    | 7900 |
| • <i>Verbena stricta</i>        | ?    |
| • <i>Alfileria</i>              | ?    |
| • <i>Mallotus drummondianus</i> | "    |
| <i>Bigtornia elongata</i>       | "    |
| • <i>Helianthus</i>             | "    |
| • <i>Fallugia</i>               | "    |
| • <i>Grevillea</i>              | "    |
| • <i>Rhus aromatica</i>         | "    |
| • <i>Spiraea bigelovii</i>      | "    |
| • <i>Yucca</i>                  | "    |

|               |      |
|---------------|------|
| <u>Valley</u> | 7700 |
| <u>Camp</u>   | 8050 |
| <u>Trees</u>  | 7600 |

|                            |          |
|----------------------------|----------|
| Aug. 13. Hondo Camp        |          |
| <i>Mammillaria</i>         | 7900     |
| <i>Opuntia arborescens</i> | 1        |
| "                          |          |
| "                          |          |
| <i>Cedrus</i>              | on rocks |
| "                          |          |

|                         |      |
|-------------------------|------|
| Aug. 14, Camp           | 9:30 |
| Hondo R.                | 7600 |
| Aguade lobo             | 8500 |
| <u>San Cristobal</u>    | 8100 |
| <u>Lava</u>             | 8800 |
| <u>Camp near Questa</u> | 8000 |

|                         |      |
|-------------------------|------|
| Aug. 15 Camp            | 9:30 |
| Red R.                  | 7850 |
| Questa                  | 8100 |
| Tip Red R. Camp 5 mi. S | 8    |
| <u>Camp</u>             | 8200 |

|                         |                         |
|-------------------------|-------------------------|
| Aug. 16 Camp            | 8200                    |
| <u>Mouth of S. Fork</u> | 8500                    |
| <u>Upper Sonoran</u>    | - 8200 <sup>50</sup>    |
| " "                     | mid up to 8500          |
| " "                     | NE to 7800 <sup>?</sup> |
| Transition zone NE      | - 8500                  |
| " "                     | SW - 10000              |
| Canadian zone           | NE 8500 - 11000         |
| " "                     | SW 10000 -              |

|                         |                    |
|-------------------------|--------------------|
| <u>Red River town</u>   | 9250               |
| <i>Picea pungens</i>    | - 9500             |
| " <i>engelmanni</i>     | 9500 -             |
| <i>Abies lasiocarpa</i> | 9500 <sup>NE</sup> |

Camp on Lost Trail Cr. 10700

Aug. 17. to top of hill & back.  
Aug. 18 Camp 9.  
Top of ridge.  
Anchor river

Pass

*Pinus aristata* 11300<sup>ss</sup>  
*Populus trem*  
*Taibilla* 10800  
*Gowanché Cr.* 9900  
*Costilla River* 9400  
Camp-Coyote Camp 9700

Aug. 19 Camp 9700

Ranch

Camp-Coyote Camp 10700

Aug. 20, Camp  
Pine marten a few to  
*Physocarpus*  
11800: *Physalia*  
11350 *Arctostaphylos uva-ursa*

Top ridge 12300  
*Abies* *hindsiana* c. lobesiana 12600  
*Zonotrichia* "  
*Neurolepa* "  
*Cleptes* 12400

Top slopes 12700  
*Tribulus* S.E. 12600  
" " SW. 12800  
first high rock 13200  
Saddle 12800  
Second peak 13400  
Snowball 13316  
Highest peak (13650) 136000

*Anthus* 12700 - 13600  
*Saxia arctica* - 13400  
*Otocoris* 1300 - 13300  
*Loganus dum* 13200 + 13300  
*Thunera* 13600  
*Aquila* 13000 + feathers 13600  
*Buteo b. calurus* 13400  
*Circus* 13500

back to Camp

10700

11000

| Peak                                 |           | 13600                        |       |
|--------------------------------------|-----------|------------------------------|-------|
| <i>Geum rossii</i>                   |           | "                            |       |
| <i>Sibaldia procumbens</i>           |           | "                            |       |
| <i>Potentilla</i> litt.              |           | "                            |       |
| " <i>pratensis</i>                   | -         | 13550                        |       |
| <i>Sedum</i> litt. yellow            |           | 13600                        |       |
| <i>Saxifraga chrysanthemoides</i>    |           | "                            |       |
| <i>Gilia</i> acanthis                |           | "                            |       |
| <i>Arenaria</i>                      |           | "                            |       |
| <i>Asteriscia borealis</i>           |           | "                            |       |
| <i>Erigeron</i> small blue           |           | "                            |       |
| <i>Fruticosa frigida</i>             |           | "                            |       |
| <i>Peronychia</i>                    |           | "                            |       |
| litt. white like <i>Peronychia</i>   |           | "                            |       |
| <i>Helium</i> ?                      | gray leaf | "                            | 13600 |
| "                                    | gray leaf | "                            | 13300 |
| <i>Myosotis</i>                      |           | "                            | 13400 |
| <i>Corynandra</i>                    |           | "                            | 13200 |
| <i>Polygonum avicinum</i>            |           | "                            |       |
| <i>Polygonum bistorta</i>            | 13300     | <i>Canis lupus</i>           | 13300 |
| <i>Salix reticulata</i>              | 13000     | <i>Ovis montana</i> reported |       |
| <i>Ligustrum aestuans</i>            | 13600     | <i>Ursus horribilis</i>      |       |
| <i>Gentiana munita</i>               | 13300     | " <i>canis</i>               |       |
| <i>Oxybaphus</i> - pink              | 13500     |                              |       |
| <i>Calluna vulgaris</i>              | 12800     |                              |       |
| <i>Salix</i>                         | gray leaf | 13000                        |       |
| "                                    | gray leaf | "                            |       |
| <i>Ziziphora</i> <i>gymnocephala</i> |           | 13400                        |       |
| " <i>nam</i>                         |           | 1230-13400                   |       |
| <i>Urtica dioica</i>                 |           | - 13550                      |       |

|                                      |             |                      |
|--------------------------------------|-------------|----------------------|
| <u>Aug. 21</u>                       | <u>Camp</u> | 90900                |
| Valley of wood                       |             | 10700                |
| <u>Scipio &amp; Star</u>             |             | 10400                |
| Alms                                 |             | - 10100              |
| <i>Picea pungens</i>                 |             | 81200                |
| <u>Coyote Camp</u>                   |             | 10000                |
| <i>Bigserruria</i> big tree          |             | - "                  |
| <i>Fibis strum</i>                   |             | "                    |
| <u>Gilaaltis</u>                     |             | 7700                 |
| <i>Pinus ponderosa</i>               |             | - 9900 <sup>sw</sup> |
| " <i>aristata</i> 9900 <sup>sw</sup> |             |                      |
| " <i>flexilis</i>                    |             | - 9900               |
| <u>Betula</u> :                      |             | - "                  |
| <i>Pseudotsuga</i>                   |             | - "                  |
| Beaver pond                          |             | 7600                 |
| Lunch                                |             | 9450                 |
| <u>Camp above beaver pond</u>        |             | 9800                 |

|                                 |                     |                      |
|---------------------------------|---------------------|----------------------|
| <u>Aug 24</u>                   | <u>Camp, 1 P.M.</u> | 9550                 |
| <u>Costilla River &amp; Cr.</u> |                     | 9850                 |
| <i>Populus angustifolia</i>     |                     | -                    |
| Alms                            |                     |                      |
| <u>W. Latin Cr.</u>             |                     |                      |
| <u>Top of ridge</u>             |                     | 10300                |
| <i>Juniperus</i> 2              |                     | - 9650 <sup>sw</sup> |
| <i>Pinus edulis</i>             |                     | - "                  |
| <i>Artemisia tridentata</i>     |                     | - "                  |
| <i>Betula</i>                   |                     | "                    |
| <i>Hopks</i>                    |                     | "                    |
| <i>Monarda</i>                  |                     | "                    |

Costilla R. valley 9750  
Camp 100 feet above R. 9750

|                                |             |            |
|--------------------------------|-------------|------------|
| <u>Aug. 25</u>                 | <u>Camp</u> | 8 AM. 9050 |
| <i>Berberis spathulata</i>     |             | -          |
| <i>Solix nigra</i>             |             | "          |
| <i>Wentzelia</i>               |             | -          |
| <i>Gutierrezia</i>             |             | 8600       |
| <i>Eryotia laevata</i>         |             | - 8500     |
| <i>Atriplex canescens</i>      |             | "          |
| <i>Scirpus monspeliensis</i>   |             | 9050       |
| <i>Thomomys pusio?</i>         |             | "          |
| <i>Sals.</i> green 1           |             | 9000       |
| <i>Peromyscus spinescens</i> 2 |             | "          |
| <u>Costilla town</u>           |             | 8500       |

Dates  
wheat  
corn  
peas  
potatoes  
squashes  
watermelons  
muskmelons  
beets  
straw  
Bridge 8100  
Camp 8300  
tobacco  
onions  
apples  
plums

Aug. 25, Comp 7:30, 8300

*Helianthella* abn.

*Zizinaea "Pursh"* clayards

Sumt of ridge about 8400

Antonito

Correct altitude

(850)

(7888)

### Del Norte

*Yucca glauca*

*Ribes cereum* "

*Atriplex canescens*

*Sarcobatus* on flats

*Bigelovia canescens*

"

Aug. 30

Antonito to Alanosa

Aug. 31 Alanosa 7:30 A.M.

*Sarcobatus* abn.

*Bigelovia canescens*

*Gutierrezia*

*Perodipus* abn

*Artemesia* big purple

*Bigelovia* - dark green

*Hebantus annuus* abn, sp.

*Zenaidura*, soaring  
in sunflower fields

*Euphagus* in flocks

*Pica* some

*Murula* a few

*Hornero*

Marta Vista

*Xanthocephalus* flocks

*Sturnella* com

*Salpinctes* sparrowines 1

*Lanius* 1

*Spizella breweri*, 1<sup>st</sup> in town

Del Norte 9 A.M.

*Gutierrezia*

*Hebantus annuus*

*Helianthella*

*Grindelia*

*Eurotia*

*Asternisia frigida*

" *clavuloides*

" *away trifida?*

*Opuntia polyacantha?* abn

*Carex*

"

"

*Eriogonum*

*Mirabilis*

*Pinus edulis*

on hills

*Juniperus*

*Ribes leptanthum* bush on hill

*Populus angustifolia*

*Salix nigra*

" *cordata*

*Ribes aurum* - both yellow & black

del Norte Aug. 31 + Sept 1.

|                                     |             |
|-------------------------------------|-------------|
| <i>Cyanocephalus</i>                | 2           |
| <i>Lathyrus sativa</i>              | abn         |
| <i>Salpiglossis</i> or <i>colea</i> |             |
| <i>Chrysanthemum pectinatum</i> Con |             |
| Hieracium                           | abn         |
| <i>Lesqycium</i>                    | 3.          |
| <i>Prosceptis</i>                   | 1           |
| <i>Pisca</i>                        |             |
| <i>Cirsium</i> 2                    |             |
| <i>Podocarpus</i>                   | 2           |
| <i>Oryzopsis</i> 1 heard            |             |
| <i>Lamium</i>                       | com         |
| <i>Malvastrum</i>                   | 1           |
| <i>Tiquamia vestita</i>             | 1           |
| <i>Carpodacus montanus</i>          | 1           |
| <i>Spinus pinus</i>                 | com         |
| <i>Mirabilis</i>                    | 4           |
| <i>Spigelia</i>                     |             |
| <i>Eupatorium</i>                   | 1           |
| <u><i>Cleoptis collaris</i></u>     | com         |
| <i>Canis latrans</i>                |             |
| <i>Fibres</i>                       | in fish pot |
| <i>Cynodon dactylon</i>             | abn         |
| <i>Yucca pinita</i>                 | 1           |
| <i>Ectemnius quadriguttatus</i>     | com         |
| <i>Perodipus</i>                    |             |
| <i>Peromyscus sonoriensis</i>       | abn         |
| <i>Mus musculus</i>                 | abn         |
| <i>Mus musculus</i>                 | 1           |
| <i>Ruthrodontomys</i>               | 1           |

Sept. 2 Alamosa 74 mi.

|   |                    |
|---|--------------------|
| <u>Autorito</u>                                 | 8. "               |
| Acreoel set of                                  | 7900.              |
| Up Conchos R. 10 mi.                            | 8300               |
| Sept. 3 - Camp                                  | 8200               |
| S. slope - Upper Sonoran                        |                    |
| <i>Pinus edulis</i>                             |                    |
| <i>Juniperus monspessulana</i> + <i>frigida</i> | 9500 <sup>SW</sup> |
| <i>Atriplex canescens</i>                       |                    |
| <i>Bigelovia canescens</i>                      |                    |
| <i>Grindelia</i>                                |                    |
| <i>Artemisia bidentata</i>                      |                    |
| " <i>frigida</i>                                | a little           |
| <i>Eurotia lanata</i>                           |                    |
| <i>Mirabilis</i>                                |                    |
| <i>Opuntia polyacantha</i>                      |                    |
| <i>Acacia</i>                                   | fig spines         |
| "   | little one         |
| <i>Mammillaria</i>                              |                    |
| <i>Yucca glauca</i>                             |                    |
| <i>Helianthus</i>                               |                    |
| <i>Helianthella</i>                             |                    |
| <i>Ribes leptanthum</i>                         |                    |
| " <i>sericeum</i>                               |                    |
| <i>Rhus trilobata</i>                           |                    |
| <i>Montezumia</i>                               |                    |
| <i>Cercocarpus parryi</i>                       | 8400 - 9700        |

8300 foot camp

N.E. slope, transitions -

*Pinus ponderosa* 8500<sup>nc</sup>  
*Pseudotsuga* 8500<sup>n.e.</sup>  
*Pseudotsuga*  
*Abies concolor*  
*Populus tremuloides*  
" " "  
*Picea* ?

8600<sup>n.e. gutch</sup>  
8750<sup>n.e. gutch</sup>  
8850<sup>n.e. gutch</sup>

Covejos R. bottoms 8300 feet

*Populus angustifolia* abn

*Pinus ponderosa* a few

*Picea pungens*  
*Salix cordata*  
" *nigra*?

*Coronilla speciosa*

*Elaeagnis argentea*

*Lonicera involucrata*

*Rosa*

*Ribes d. irregum*

*Potentilla fruticosa*

*Gilia aggregata*

*Monarda*

*Campanula "niflora"*

*Lupinus*

*Pentstemon* - *scdlt*

*Clematis*

*Lupinus hirsutus*

*Alnus incana*

*Prunus virginiana*

Top of mesa 9100

Top of crater 9800

*Abies concolor* N.E.

*Pseudotsuga*

*Populus tremuloides*

|                                 |               |
|---------------------------------|---------------|
| Conchos River Camp, 8300.       |               |
| <i>Odocoileus</i>               | tracks        |
| <i>Sciurus neovirens</i>        | 8900 N.E.     |
| <i>Cynomys ludovicianus</i>     | abn           |
| <i>Castor canadensis</i>        | 1 of 89 coopt |
| <i>Erethizon quadrivittatum</i> | abn           |
| <i>Oryctolagus</i>              | 1             |
| <i>Peromyscus sonoriensis</i>   | abn           |
| <i>Neotoma</i>                  | abn           |
| <i>Perognathus</i>              | 1             |
| <i>Perodipus montanus</i>       | abn           |
| <i>Lepus pictus</i>             | abn           |
| <i>Thomomys amoenus</i>         | com.          |
| <i>Canis latrans</i>            | " "           |
| <i>Felis</i>                    | "             |
| <i>Erethizon</i>                | "             |
| <i>Antilocapra</i>              | tracks com    |
| <i>Taxidea</i>                  | tracks com    |
| Bats                            | com           |
| <i>Cervus</i>                   | old horns     |

|                             |            |
|-----------------------------|------------|
| Sept. 5. Camp same          | 8200       |
|                             | 7700       |
| <u>Antelope</u>             | 7900       |
| Camp by San Antonio R. 8700 |            |
| Cave 10 + 12 miles          |            |
| Sept. 6. Camp               | 8400       |
| sedge timber                | 9000       |
| Top ridge                   | 9500       |
| Sunshot Sheep Spring        | 9350       |
| Camp at fork of Jesus       | 8750       |
| Sept. 7 Camp. 9             | 8650       |
| Hopewell                    | 9700       |
| Summit                      | 10100      |
| Camp                        | 9800       |
| <i>Picea engelmanni</i>     |            |
| <i>Abies lasiocarpa</i>     |            |
| <i>Populus tremuloides</i>  |            |
| <i>Salix</i>                |            |
| <i>Potentilla fruticosa</i> |            |
| <i>Veronica</i>             |            |
| <i>Gentiana</i> - fingered  |            |
| <i>Comandra umbellata</i>   |            |
| "                           | large blue |
| <i>Caltha leptosepala</i>   |            |
| <i>Potentilla</i>           |            |
| <i>Sambucus</i>             |            |

|                             |       |
|-----------------------------|-------|
| Sept. 10, Camp              | 10000 |
| Elmwood                     | 10500 |
| Beaver Pond                 | 9700  |
| <i>Abies concolor</i>       | "     |
| <i>Pseudotsuga</i>          | "     |
| <i>Alnus</i>                | "     |
| <i>Bymphloeus</i>           | "     |
| <i>Solidago</i>             | "     |
| <u>Scrub</u>                | "     |
| <i>Acer glabrum</i>         | 9400  |
| <i>Prunus virginiana</i>    | 9200  |
| <i>Aureus</i>               | "     |
| <i>Coronis asprefolia</i>   | "     |
| <i>Populus angustifolia</i> | 8800  |
| <i>Pinus ponderosa</i> W.   | 9100  |
| Camp on bottom of valley    | 7700  |

Sept. 11 Tierra Amarilla 7650

Sept. 14, Camp 8. 7550  
 Tierra Amarilla  
*Artemisia frigida*  
 " *ludoviciana*

Manzano, San Juan Mts.

*Odocoileus* rare  
*Sciurus aberti* not found  
*Sciurus nigerianus*, abn.  
*Calospermophilus lateralis* com  
*Eutamias* abn  
*Cynomys gunnisoni*, sp to Hopewell  
*Erythronium* com  
*Micotus naevius* abn  
 " woodrat?

*Pseudosasa sibiricus*, abn.  
*Thouamus pusio*, abn  
*Spizella breweri* 1  
 " bairdii signs in woods  
 Fiber? ~~td bone~~  
 Cactus ~~1 house~~  
 Carex lat. ~~1 house~~ com  
 Tephritis



|                             |       |
|-----------------------------|-------|
| Sept. 10, Camp              | 10000 |
| Summit                      | 10500 |
| Beaver Pond                 | 9700  |
| <i>Abies concolor</i>       | "     |
| <i>Pseudotsuga</i>          | "     |
| <i>Alnus</i>                | "     |
| <i>Symphoricarpos</i>       | "     |
| <i>Silix cordata</i>        | "     |
| <u>Scroph</u>               | "     |
| <i>Acer glabrum</i>         | 9400  |
| <i>Prunus virginiana</i>    | 9200  |
| <i>Aurum</i>                | "     |
| <i>Corvus ater</i>          | "     |
| <i>Populus angustifolia</i> | 8800  |
| <i>Pinus ponderosa</i> (W.) | 9100  |
| Camp on bottom of valley    | 7700  |

Sept. 11 Sierra Nevada 7650

Sept. 14, Camp 8. 7550<sup>0</sup>  
*Eriogonum*  
*Artemisia frigida*  
 " *ludoviciana*

Mammals, San Joaquin Mts.  
*Odocoileus* rare  
*Sciurus aberti* not found  
*Thomomys neomexicanus*, abn.  
*Callospermophilus lateralis* com  
*Erethizon* abn  
*Cynomys leucurus*, sp to Hopland  
*Erithizon* com  
*Microtus flavus* abn  
 " wordap?  
*Peromyscus sonoriensis*, abn.  
*Thomomys talpoides*, abn  
*Lepus californicus* 1  
 " *bairdii* signs in woods  
*Fiber*? old bone  
*Castor* old house pond  
*Canis latrans* com  
*Zapus*



Sept. 14 Camp 8. 7550  
Tierra Amarilla 7500  
*Pinus ponderosa* "  
*Quercus gambelii* "  
*Artemisia tridentata* "  
*Baccharis canescens* "  
*Artemisia* "  
*Helianthus annuus* "  
*Aster multiflorus* "  
 " purple "  
*Populus angustifolia* "  
Chama R. 7200  
*Berberis spathulata*  
*Salix nigra*  
*Ribes*  
*Juniperus monosperma*  
 " *flaccida*  
*Pinus edulis?* a few trees  
Chama R. at mill 6950  
*Helianthus* "  
*Opuntia polyacantha* sp. "  
*Yucca glauca* "  
*Cercus* (899) plants "  
*Pinus edulis* con "  
*Atriplex canescens*  
*Sarcobatus*  
*Suaeda* around lake  
Rock lake 7300

Sept. 15  
 At Juarilla Fiesta -  
Sept. 16 Camp 7550  
Summit  
*Artemisia arborescens*  
 " *cana*  
 " *tridentata*  
 " *frigida*  
 " *leptocephala*  
Take the road 7 mi. 7530  
Sept. 17 back 2 miles  
Sept. 19 Camp 830 7500  
Takale Joca 7425  
*Pinus ponderosa* abn  
*Psudotsuga* con  
*Quercus gambelii* abn  
*Pinus edulis* con  
*Juniperus occidentalis* con  
 or *divaricata* "  
*Cercocarpus parviflorus*  
*Amelanchier*  
*Berberis repens*  
*Platanus virginiana*

*Artemisia caerulea* abn  
.. *frigida*  
.. *Brachycalodes*

*Helianthella*

*Helianthus annuus*

*Brandelis*

*Aster multiflorus*

" purple

*Bigelovia canescens* abn

*Antennaria*

*Lupinus*

*Castilleja*

red

*Pentstemon*

robust

*Julia agrestis*

*Ribes cereum*

" *aurum*

*Rhus aromatica*

Young Sheep sand 7000

*Neurolepis* a few

*Artemisia pedicularia*

" *arborea*

*Sarcobatus*

Tumble weed

*Cowania metacoma* a few bushes

Dulce

Camp at Dulce 6900  
Sept 20  
up Horseback road 8 miles  
Camp 7600

Sept 22 Camp 10. 7600

Horseback 5 miles 7800

on Continental Divide

*Neurolepis* a few by lakes

*Salix* yellow tru, " "

*Pinus ponderosa* abn

*Pinus edulis* on S. slope,

*Quercus gambelii* abn.

*Amelanchier*

*Prunus virginiana*

*Tulip*

*Amelanchier*

*Abies concolor* - *Ximenesia*

*Artemisia tridentata*

" *cavara*

" *arborea*

" *frigida* "

Tumbleweed

*Suaeda* around lake

*Ornithogalum*

*Rhus aromatica*

*Pseudotsuga* con. on N.E. slope

*Abies concolor* a few " "

*Populus tremuloides* " " "

*Populus tremuloides* " " "

*Symphoricarpos* "

Horseshoe Sept. 22 + 23  
 Zenaidura 2  
 Godwells abn  
 Seaups con  
 Querquedula discors? con  
 " cyanoptera? "  
 Fulica americana a few  
 Tringa bairdi 3  
 Graptolepis 2  
 Geococcyx vociferus 2  
 Dryobates villosus 1  
 Colaptes  
 Bubo 2 heard  
 Pandion 1  
 Sprotto 1 dead one  
 Chordeiles 1 seen  
 Pica abn. + nests  
 Corvus sinuatus 2  
 " trachysynodus / hard  
 Zonotrichia abn  
 Melospiza lincolni a few  
 Spizella  
 Pooecetes abn.  
 Dendroica auduboni "  
 Wilsonia "  
 Geothlypis 1  
 Regulus calendula con  
 Parus atricapillus 3  
 Troglodytes ater con.  
 Salpinctes 1  
 Sialia bairdi abn.

Parus gambeli 1  
 Onospiza con  
 Otocoris 4  
 Cyanocitta 1  
 Setta pyrnea 3  
 Falco sparverius 1  
 Accipiter velox 1  
 Aquila chrysaetos 1  
 Asyndesmus 3  
 Myadestes townsendi 3  
 Sturnella 2  
  
 Grimp. geminoris abn  
 Eutamias con  
 Piranga sonoriensis abn  
 Motacilla fallax ? con  
 Merops wordax "  
 Thraupis palliata abn  
 Euphonia grandis "  
 Icterus parvirostris con  
 Canis latrans "  
 Taxidea "  
 Vegetalis fuscus 1

*Horse Lake - continued*  
*Berberis repens* com  
*Bigelovia canescens* "  
*Gutierrezia* " "  
*Populus angustifolia*, sparsus  
*Tümperosa monosperma* obs. hope  
 " *psacida* " "  
*Eriogonum* 3 species  
*Melastoma occidentale*  
 " *monosperma*  
*Fragaria spicata*, in gulch

Chama River near El Vado  
*Eutamias* not taken, com.  
*Neotoma* "  
*Peromyscus sonoriensis* "  
*Micromys variegata* 1 (Gaut)  
*Thomomys aureus* 2, abn.  
*Zapus* com  
*Lynx* "  
*Canis latrans* hard  
*Uroptilis fuscus* 1, com  
*Odocoileus hemionus*, reported.  
*Lynx punctis* 1

Sept. 24 Camp. 10. 7800  
Chama River 10 mi. 6800  
Sept. 25 Camp 4500  
Puerallavilla 7700  
Sept. 26 Camp - 7200  
 El Vado 7200  
 Staking Lake 7700  
Sept. 27.  
*Attagenus* com  
*Nitton carolinensis* abn  
*Querquedula discors* com  
 " *cyanoptera* ?  
*Merica americana* com  
*Dafila acuta* a few  
*Cypripeda spatula* "  
*Apatya americana* com  
 " *affinis* ? a few  
*Erastura javaricensis* abn. young.  
*Branta canadensis* <sup>5 seen Sept. 20</sup> heard Sept. 28  
*Anser gambeli* ? feathers found  
*P. rufipes* com  
*Fulica americana* abn. imm.  
*Porzana carolinensis* com.  
*Tinga bairdi* a few  
*Oxyechus vorax* 2  
*Tarsus californicus* ? 1 killed

|                                       |       |
|---------------------------------------|-------|
| <i>Bubo virginianus</i> , old in. com |       |
| <i>Falco mex</i>                      |       |
| <i>Falco sparverius</i>               | a few |
| <i>Circus</i>                         | 2     |
| <i>Aquila chrysaetos</i>              | 1     |
| <i>Dryobates v. hydroscopus?</i>      | co    |
| <i>Ampeliscaes torquata</i>           | 2 G.  |
| <i>Corvus sinuatus</i>                | 2     |
| " <del>brachyrhynchus</del>           | co.   |
| <i>Pica</i>                           | co.   |
| <i>Aquila chrysaetos</i>              | t     |
| <i>Aquidexia p.</i>                   | co.   |
| <i>Zenaidura leucophrys</i>           | "     |
| <i>Melospiza montana</i>              | "     |
| " <del>lincolni</del>                 | "     |
| <i>Spizella</i>                       |       |
| <i>Furnarius neamensis</i>            | 1     |
| <i>Poocetes</i>                       | co    |
| <i>Dendroica auduboni</i>             | "     |
| <i>Wilsonia</i>                       | "     |
| <i>Geothlypis trichas</i>             | "     |
| <i>Anthus pennsylvanicus</i>          | "     |
| <i>Otocoris</i>                       | "     |
| <i>Salpinctes</i>                     | "     |
| <i>Sialia bairdi</i>                  | abn.  |
| <i>Cistothorus flavigularis</i>       | co.   |
| <i>Sitta pygmaea</i>                  | "     |
| <del><i>Spinus pinus</i></del>        | "     |
| <del><i>Thryophilus</i></del>         | "     |

|                                |       |
|--------------------------------|-------|
| <i>Anthus ludovicianus</i>     | abn.  |
| <i>Falco mexicanus</i>         | 1     |
| <i>Sturnella neglecta</i>      | 2     |
| <i>Podalimbris podicipes</i>   | 1     |
| <i>Zenaidura</i>               | 1     |
| <i>Crotophys collaris</i>      | 1     |
| <i>Neotoma propinqua</i>       | 2     |
| <i>Passerina</i>               | 1     |
| <i>Pipilo negalonyx</i>        | 1     |
| <i>Cyanocitta</i>              | co.   |
| <i>Myadestes townsendi</i>     | 1     |
| <i>Sitta nelsoni</i>           | 1     |
| <i>Regulus calendula</i>       | 1     |
| <i>Actitis macularia</i>       | 1     |
| <i>Rhytipternus naevius?</i>   | 15    |
| <i>Caeculæus portalis</i>      | a few |
| <i>Actidromus auduboni</i>     | co    |
| <i>Helminthophila alata</i>    | 1     |
| <i>Actidromus bairdi</i>       | co    |
| " <del>minutilla</del>         | .     |
| <i>Pedrococcyx montanus</i>    | 1     |
| <i>Amphispiza neomexicana</i>  | 1     |
| <i>Euphagus cyanocephalus</i>  | abn.  |
| <i>Agelaius</i>                | a few |
| <i>Ceryle alcyon</i> , Oct. 3, | 1     |

String Lake Sept. 30, 1200

*Pinus ponderosa*

abn

" *adultis*

*Pseudotsuga*

on. slopes

*Juniperus* ?

abn. S.

*Buxus* *gantli*

abn.

*Populus angustifolia*, along stream

*Salix*

*Acrocarpus*

con

*Artemisia tridentata*

wh

"

*cana*

"

"

*artuscula*

"

*frigida* con

"

*ludoviciana* "

*Bigelovia canescens*

"

"

"

*Galieria*

*Helianthella* - *Ximenesia*

"

*Atriplex canescens*

"

*Salsobatus*

"

*Astrs* 3

"

*Yucca glauca*

con

" *baccata* a few

*Opuntia missouriensis*? con

" *fragilis* on ridges

*Cereus paucispinus* con

" *viridiflorus* a few

*Scirpus olneyi* in lakes

*Juncus lacustris* "

*Swartzia* stony slopes

*Suaeda*

Top of ridge west of lake

7900

*Eriogonum* *lanceolatum*

*Malvastrum coccineum*

numerous

*Gramineae*

abn

abn.

"

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Plant Catalogue 1904

Taos Mts. N. Mex.

850. *Mystenia* <sup>July 20.</sup>

|      |                              |                      |
|------|------------------------------|----------------------|
| 851. | bttly white flower           | 13000 ft.            |
| 852. | <i>Rhodiola integrifolia</i> | 13000 ft.            |
| 853. | bllw poppy                   | "                    |
| 854. | <i>Helianthemum</i>          | 13500                |
| 855. | "                            | "                    |
| 856. | <i>Ericion</i>               | "                    |
| 857. | <i>Dahlia</i> July 23        | "                    |
| 858. | <i>Lilium</i> w. lvs         | 11200                |
| 859. | <i>Thlaspiola</i>            | 11200                |
| 860. | <i>Mystenia</i>              | big esp "            |
| 861. | <i>Salix</i>                 | 11400                |
| 862. | "                            | "                    |
| 863. | <i>Thlaspiola</i>            | congestum, det 13000 |
| 864. | "                            | multitum, pale "     |
| 865. | <i>Hydrophyllum</i>          | "                    |
| 866. | "                            | "                    |
| 867. | <i>Rodiola</i>               | 13500                |
| 868. | <i>Minuartia</i>             | "                    |
| 869. | <i>Potentilla</i>            | "                    |
| 870. | <i>Mystenia alpina</i>       | "                    |
| 871. | "                            | "                    |
| 872. | <i>Myosotis alpestris</i>    | "                    |
| 873. | <i>Saxifraga flagellaris</i> | "                    |
| 874. | "                            | "                    |
| 875. | "                            | "                    |
| 876. | <i>Paronychia pulvinata</i>  | "                    |

Plant Catalogue 1904

Zaos Mts. N. Mex.

850. *Mystenia* <sup>July 20.</sup>

13000 ft

851. little white flower

"

13000 ft

852. *Rhodiola integrifolia*

"

853. yellow poppy

"

854. *Heuchera* <sup>July 20.</sup>

13500

855. <sup>July 20.</sup> wavy leaf

"

856. *Erica*

"

857. *Draba* <sup>July 23</sup>

"

858. *Ribes wolfii*

10200

859. *Rhodiola*

11200

860. *Mystenia*

big leaf "

861. *Salix* <sup>July 20.</sup>

11400

862. " "

863. *Polygonum* <sup>July 20.</sup> *concentricum*, dark 13000

864. " *multitum*, pale "

865. *Hydrophyllum*

"

866. *Veronica* <sup>July 20.</sup> *eruptivis*

"

867. *Rhodiola* <sup>July 20.</sup>

13500

868. *Delphinium* <sup>July 20.</sup>

"

869. *Potentilla*

"

870. *Mystenia alpina*

"

871. " *longiloba*

"

872. *Myosotis alpestris*

"

873. *Saxifrage flagellaris*

"

874. " *chrysanthra*

"

875. " *nivalis*

"

876. *Paronychia pulvinata*

"



Zaos Mts., N.M.

July 28

877. *Gentiana parryi*? closed 11400  
878. " *serata*? fringed "  
879. *Salix reticulata* "  
880. *Mertensia glauca* "  
881. " *viridula* "  
882. *Schaeertia parvissima* "  
883. *Gentiana verisimilis* "  
884. *Salix* gray "  
885. " green "  
886. *Picea engelmanni*? like pungens "  
Hondo Canyon Aug. 10. 8200

*Picea pungens*

887. *Picea pungens*

888. *Mentzelia*

889. *Rhus glabra*?

890. *Stachys*? big yellow cone flower

891. *Monarda*

Hondo River Aug. 13, 8000 ft.

892. *Opuntia polyacantha* fruit

893. " *felipendula* f. long fruit

894. *Mammillaria laevisantha* small

x95. *Opuntia felipendula* f. long fruit

Costilla R. Aug 23

896. *Pinus aristata* 9400 ft.  
897. " " 9500

Del Norte, Colorado. Sept. 1.

898. *Opuntia missouriensis*? R

899. <sup>Opuntia</sup> *Cereus pachispinus*? hairy spined  
900. " fine spined

901. *Echinocactus viridiflorus*? R. little one

Conejos R. Sept. 4

902. *Mammillaria*

903. *Cereus* small  
Boulder Lake, Sept. 15.

904. *Helianthella*

" Dulce N.M. Sept. 19

905. *Astragalus obtusocalyx*

906. " *tridentata*

907. " *frigida*

908. " *canescens*

Lake La Jara Sept. 18.

909. *Opuntia fragilis*

El Vado Sept. 26.

910. *Opuntia*

Gallinas Oct. 6.

911. *Opuntia engelmanni*

912. *Quercus gambelii*

913. " *lobata*?

Abiquiu Oct. 15

914. *Mamillaria*

Espanola, Oct. 19

915. *Opuntia arborescens*

916. *Mammillaria* 10000 ft.

Valentine, Texas Oct. 24.

917. *Baccharis glutinosa* ?  
918. *Ephedra trifurcata* ?

Seguin, Texas, Nov. 7.

Cereus

919. Abn. in mesquite brush  
920. *Cereus* Nov. 10

921. *Mammillaria*  
Columbus

Sabal

Saratoga

923. *Sabal* near Watson  
924. " near Watson

925. *Quercus digitata* (= *hololeta*)

926. *Quercus phellos* ?

927. " "

928. *Quercus alba*

929. "

930. *Quercus michauxii* - Cow oak

931. "

932. "

933. "

934. "

935. "

936. "

937. "

938. "

939. "

940. *Quercus rubra* - post oak.

941. *Gelsemium sempervirens*

942. *Hedysarum alba* ?

943. *Aegrum multicaule* ?

944. *Aegrum stans*

945. *Aegrum* ? *Hypericoides* ?

946. *Hannanahis virginiana*

947. *Schnalzia lanceolata*

948. *Cyrilla racemiflora* Wab.

949. *Llex lucidula* ~~lucidula~~

950. *Balodendron arboreum* ~~arboreum~~

951. *Smilax* <sup>laurifolia</sup> ~~canescens~~

952. *Smilax rufiphloia* ?

953. *Smilax pumila*

954. *Viburnum nudum* ?

955. *Persea borbonia*

956. *Magnolia virginiana* ?

957. *Leitneria floridana*, sweet leaf

958. *Nyssa aquatica*

959. ~~Sassafras~~ <sup>Ulmus</sup> *wolle*

960. " " " "

Navasota Dec. 10.

961. *Gleditsia aquatica*

962. *Quercus macrocarpa*

963. *Quercus*

big red oak

964. *Cardiospermum* (*Coriandum*?)  
Columbus

965. *Cretagera opulifolia*

966. " *texana*

Oct. 5 Camp 10. 7300  
 El Pado 12. 7000  
 Camp 10 mi. S. 7200

Oct. 6. Camp 9. 7100  
 " 4 miles 7500  
 dry ~~Gallinas~~ River 7000  
 Gallinas 7500

Oct. 5. Camp 9. 7300  
 Gallinas ,  
 Capulin 7800  
 Opuntia engelmanni 1 7500  
 " arborescens 1 "  
 Bigelowia big grass atm  
 Yellow pine msa 8000

Coyote Cr. \$150

Puerco R. 8200

Camp 8300

Oct. 7 Camp 8400  
 Fork of Coyote Canyon "  
 ridge at head of canyon 9700

Gallinas Mts. Oct. 5-6.  
 Juniperus occidentalis  
 " laciniata?

Pinus edulis  
 Artemisia tridentata  
 " cava  
 Bigelowia canescens

Pinus ponderosa S.W. 8000 - 9700  
 " " N.E. 7500 - 8000

Pinus flexilis in canyon at 8500  
 Pseudotsuga 7500<sup>NE</sup> - 9000<sup>NE</sup>  
 Quercus gambelii 7500<sup>SW</sup> - 9500<sup>SW</sup>  
 " (white!) 7500<sup>SW</sup> - 9500<sup>SW</sup>

Populus angustifolia 7000 - 8500  
 Robinia pseudoacacia 8200 - 9500  
 Ceanothus 8300 - 9700  
 Arctostaphylos manzanita - 9500

Symplocarpus  
 Bebbia repens 8000 - 9500  
 " spicata 7500 - 9000

Fragaria spicata 8500 - 9000  
 Ribes cereum 9000

Pentstemon 8100 - 8500  
 Prunus virginiana 9000 - 9500

|                                    |                              |
|------------------------------------|------------------------------|
| <i>Populus tremuloides</i>         | $8000^{\text{N.E.}} - 10400$ |
| <i>Picea pungens</i>               | $8200^{\text{N.E.}} - 9700$  |
| " <i>engelmanni</i> 9500           | - 9700 - 10400               |
| <i>Abies concolor</i>              | $8200^{\text{N.E.}} - 9700$  |
| " <i>lasiocarpa</i>                | $9700^{\text{N.E.}} - 10400$ |
| <i>Acer glabrum</i>                | $8500 - 9500$                |
| <i>Rubus struthium</i>             | " -                          |
| <i>Alnus viridis</i> ,             | $8200 - 10000^{\text{S.W.}}$ |
| <i>Salix cordata</i>               | - 9700                       |
| <i>Pachystima</i>                  | $8500^{\text{N.E.}} - 10400$ |
| <i>Veratrum</i>                    |                              |
| <i>Gentiana</i> fringed            | - 10000                      |
| <i>Ribes cereum</i> along cr. 8100 |                              |

|                                  |             |      |
|----------------------------------|-------------|------|
| <u>Oct. 9 -</u>                  | Camp.       | 8450 |
| up to top of mts. - snow on top. |             |      |
| edge of top 1000                 |             |      |
| Highest point 10400              |             |      |
| Transition zone                  | - 9700 S.W. |      |
| " "                              | - 9000 N.E. |      |
| <u>Summit on road</u>            | 9300        |      |
| <u>Prairie dog park</u>          | 9000        |      |
| <u>Oct. 10</u>                   | Camp        | 8300 |
| bottom of Coyote Canyon          | 8100        |      |
| base of head                     | 9000        |      |
| left bank                        | 9400        |      |
| <i>Lepus pictus</i>              | 9500        |      |

Oct. 11 Broke camp 2 p.m. 8500  
Camp at Coyote 12 m. 7000

Oct. 12 Camp 9. 7000  
*Juniperus occidentalis*  
*Pinus edulis*  
*Quercus*  
*Populus angustifolia*  
*Forstiera monilis*  
*Rhus aromatica*  
*Ligustrum vulgare*  
*Atriplex canescens*  
*Sarcobatus*  
*Artemisia tridentata*

*Bigelovia canescens*  
*Artemisia*  
*Yucca glauca* glauca  
*Eriogonum*  
*Opuntia arborescens*  
 " *engelmanni* sub  
 " *bigibbere* sps  
*Carex purpurea*  
*Mamillaria* titi  
*Ribes aurum*  
*Clematis*  
*Helianthus*  
*Helianthella*  
*Salix nigra*  
 " yellow  
*Fallugia paradox*  
*Coyote Cr* 6900  
 Chama River 6150  
 Camp " "

Oct. 13. Camp 830 6050  
*Abiquiu* 6150  
 River at Abiquiu 6100  
 Camp 13 mi. below Abiquiu 6000

Oct. 14  
 Staid at camp  
Oct. 15 - Camp 1 P.M. 5900  
*Rio Grande* 5800  
 Camp near Espanola 5850

Chama River Valley  
*Populus monilifera* abn  
*Salix nigra* "  
 "  
*Forstiera*  
*Pinus edulis* on mesas  
 " *pondrosa*, dwarf " N.E.  
*Juniperus occidentalis* abn  
*Cercocarpus parvifolius* on mesa  
*Rhus aromatica* abn.  
*Fallugia paradox*  
*Artemisia filifolia*  
*Bigelovia canescens*  
 "  
*Akaneanthus annua* abn  
*Hebeanthella* "  
*Ephedra nevadensis*, on mesa  
*Opuntia arborescens* abn.  
 " *engelmanni* - 911 "  
 " *missouriensis*? longspine "  
*Mamillaria* "  
*Yucca glauca* a few  
*Espanola*  
*Opuntia fragilis*, a few

Espanola  
Eulamias, "zuleni"  
Neotoma  
Peromyscus truei  
" texana  
" sonoriensis  
Onychomys 6  
Perognathus  
Perodipus  
Thomomys 2 lbs  
Lepus  
Canis  
Lynx  
Thomomys  
Badger  
Beaver reported  
Otter " tracks  
Procyon tracks

Oct. 19 Espanola 4 P.M.  
*Dipodomys spectabilis*  
Santa Fe 4 P.M.

Lamy 10 P.M.

Oct. 20 Lamy 11 A.M.  
*Dipodomys spectabilis* - com  
*Cynota fragilis*, valley floor, com.  
*Forestiera* a few

Albuquerque 1 P.M.

Oct. 21, left Albuquerque 6 A.M.

Colorado

*Tarria* com on black soil  
*Baccharis* on S slopes  
*Prosopis pubescens* a few  
*Sesuvium virginianum* 1

Wheat covered with *Tarria*  
*Rhus microphylla* com.  
*Ephedra trifurcata*? "  
*Prosopis pubescens* "  
San Marcial 12 M.  
up on mesa

*Yucca baccata*? com  
" *radiosa*? com.  
*Baccharis glutinosa*? "

Engle - El Paso 7 P.M.

Sept. 22 El Paso

Sept. 23 El Paso. 7 PM  
Valentine 1 AM.

Sept. 24 Valentine

Sept. 25 Valentine 7:30 AM  
snowing

Puritan, ground white  
~~West Texas~~ - snow 3 inches deep

Marathon - no snow, rainy.

Del Rio - dark on leaving

San Antonio - 11 PM,

Sept. 26 to fair

Sept. 27 Austin

Sept. 28 back to San Antonio

Sept. 29 - at fair

Sept. 30 - Sunday - out to Fort.

Oct 28 - Austin to San Antonio

Sturnella - abn. all along

flocks of 10 to 50, & even 108

Sialia - com

Zenaidura macroura numerous

Cathartes aura co.

Urubu abr.

Falco sparverius com

Buteoborealis 1

Accipiter velox 1

Coturnis virg - 2 flocks of dog. coh

Carduelis - u dog. coh

Minas 3

Carduelis inca - 1 flock

Oct. 30 San Antonio

|                                |             |
|--------------------------------|-------------|
| <i>Scardafila inca</i>         | abs in town |
| <i>Pooper domesticus</i>       | " "         |
| <i>Megaceryle alcyon</i>       | " "         |
| <i>Zonotrichia</i>             | com         |
| <i>Chondestes</i>              | "           |
| <i>Amphispiza bilineata</i>    | 1           |
| <i>Auriparus flaviceps</i>     | 1 of nest   |
| <i>Mimus polyglottis</i>       | a few       |
| <i>Certhia americana</i>       | 2           |
| <i>Cathartes aura</i>          | 2           |
| <i>Urubu</i>                   |             |
| <i>Falco sparverius</i>        | 1           |
| <i>Sturnella</i>               | com. + temp |
| <i>Columbinae</i>              | 2           |
| <i>Zenaidura</i>               | 2           |
| <i>Melanerpes carolinensis</i> | com         |
| <i>Colinus o. texanus</i>      | 1 flock-15  |
| <i>Cyrinus</i>                 | 2 in 300.   |
| <i>Bubo</i>                    | 4 in 300    |

San Antonio

|                                       |                      |
|---------------------------------------|----------------------|
| <i>Prosopis pubiflora</i>             | abn                  |
| <i>Acacia farnesiana</i> "mesquite" " | "                    |
| <i>Zizyphus</i>                       | abn                  |
| <i>Cordia</i>                         | "                    |
| <i>Celtis pallida</i>                 | abn                  |
| "                                     | tree along streams " |
| <i>Lippia</i>                         | "                    |
| <i>Berberis trifolia</i>              | "                    |
| <i>Opuntia engelmanni</i>             | "                    |
| "                                     | <i>Lippia</i>        |
| <i>Phoradendron</i>                   | on mesquites, oaks   |
| <i>Tillandsia recurvata</i>           | abn                  |
| "                                     | resinoids            |
| <i>Diospyros texana</i>               | "                    |
| <i>Ulmus crassifolia</i>              | "                    |
| <i>Quercus virginiana</i>             | "                    |
| "                                     | "                    |
| <i>Ulmus crassifolia</i>              | "                    |
| <i>Pear</i>                           | "                    |
| <i>Parkinsonia aculeata</i>           | , abn. in town       |

Oct. 31 Seguin -

*Sphyrapto* 1 in town

Nov. 1. Seguin at Mr. Neil's  
 Agelaius vociferus com. heard  
 Colinus abn. 1 flock of 1200  
 Zenaidura abn.  
 Columbinae com. 6  
 Cathartes aura co  
 Turdus otis "  
 Melanerpes carolinensis com  
 Dryobates s. bairdi com. 5  
 Corvus chaloneus com  
 Accipiter velox "  
 Falco sparverius co  
 Sturnella neglecta abn.  
 Sayornis phoebe 2. com  
 Zonotrichia co  
 Porzana grammica + cajica com  
 Chondestes ~~com~~ <sup>afas</sup>  
~~com~~ <sup>afas</sup> Coturniculus bimaculatus  
~~com~~ <sup>afas</sup> ~~cassini~~ "  
 Passerinus s. auduboni 1  
 Thraupis bewicki 1  
 Amphispiza bilineata com  
 Cardinalis "  
 Mimus polyglottos "  
 Arripis floris 1  
 Nov. 1  
 Regulus calendula 2 com  
 Lanius 2 co  
 Cincinna nebulosa com heard

Nov. 3  
 Spizella 3  
 Parabuteo n. barnesi 3  
 Coturniculus s. bimaculatus com.  
 Parus c. aquilis "  
 Tachycinetes "  
 Buteo swainsoni atricristatus 3  
 Nov. 4  
 Oreoscoptes montanus 1  
 Megascops heard  
 Nov. 7  
 Otocoris 20  
 Nov. 8  
 Geococcyx 1  
 Spizella n. ochracea 3  
 Milospiza lincolni 1  
 Falco mexicanus 1  
 Quiscalus 1  
 Agelaius com  
 Thryothorus <sup>Nov. 12</sup> ludovicianus 3  
 Nov. 7  
 Corvus brachyrhynchos heard

Nov. 3 - Seguin

|                                   |         |
|-----------------------------------|---------|
| <i>Prosopis</i>                   | abn     |
| <i>Acacia farnesiana</i> ?        | com     |
| <i>Quercus virginiana</i>         | .       |
| " <i>nigra</i>                    | .       |
| " "post oak"                      | .       |
| "                                 |         |
| <i>Ulmus occidentalis</i> ?       | com abn |
| " <i>pathida</i>                  | com     |
| <i>Ulmus crassifolia</i>          | 4       |
| <i>Condalia</i>                   | "       |
| <i>Ziziphus</i>                   | "       |
| <i>Braugodendron texana</i>       | a few   |
| <i>Berberis trifolia</i>          | com     |
| <i>Opuntia engelmanni</i>         | abn     |
| " <i>leptocaulis</i>              | "       |
| <i>Ceris</i>                      | com     |
| <i>Hurrea stricta</i> ?           | "       |
| " <i>tricentra</i>                | a few   |
| <i>Erythronium</i> amplexoides,   | "       |
| <i>Bumelia lanuginosa</i>         | "       |
| <i>Toxylon pomifera</i>           | com     |
| <i>Pecan</i>                      | "       |
| <i>Xanthoxylon clava-horcules</i> | "       |
| <i>Solanum</i> 4                  |         |
| <i>Tillandsia usneoides</i>       | abn     |
| " <i>reniformata</i>              | "       |
| <i>Phoradendron</i>               | "       |
| <i>Croton</i>                     |         |
| <i>Cladodrhus</i>                 |         |
| <i>Forestiera</i>                 |         |

Seguin

|   |      |
|---|------|
| <i>Scalopurus fuscus</i> w. 1 sent      |      |
| <i>Chameleon</i>                        | com. |
| <i>Pitophrys</i>                        | 1    |
| <i>Bassania flagellum</i> - moral skins |      |
| <i>Entania</i> "mouse oak" 2            |      |
| Copperhead, a few reported              |      |
| Pattle snakes - very rare.              |      |

Squeaking frogs - abn.

Pticea trifoliata

*Solanum capsicum*

*Medinavinskia*

Cucumber - prickly

*Cucurbita*

*Salix* trees

*Smilax* at river abn.

Hickory

*Regundo*

*Vitis*

*Ulmus fulva*? Big tree

Sandpaper

Castor bean

Banana

*Partenocissia acerata*

Seguin  
Nov. 12 - hard frost

Nov. 13 - Seguin 12:45

a few cotton fields not frostbd

Luling

Lufkin - last of mesquiti posts

Past oak country

Sinton cavallieriana

near Flatonia

Flatonia

Wide prairie, block soil.  
good grass, little cotton

Engle

still prairie to

Schulenberg

still prairie

Columbus

Columbus

Nov. 14

|                                       |       |
|---------------------------------------|-------|
| <i>Cathartes aura</i>                 | a few |
| <i>Crotophaga sulcirostris</i>        | co    |
| <i>Lanius ludovicianus</i>            | 1     |
| <i>Buteo swainsoni</i>                | co    |
| <i>Falco sparverius</i>               | co    |
| <i>Colinus</i>                        | "     |
| <i>Centrocercus virginianus</i>       | "     |
| <i>Corvus brachyrhynchos</i>          | a few |
| <i>Agelaius phoeniceus</i>            | co    |
| <i>Sturnella</i>                      | "     |
| <i>Pooecetes</i>                      | "     |
| <i>Passerellus</i>                    | a few |
| <i>Zonotrichia</i>                    | "     |
| <i>Cardinalis</i>                     | co    |
| <i>Sayornis phoebe</i>                | "     |
| <i>Perisoreus canadensis</i>          | 1     |
| <i>Mimus polyglottos</i>              | co    |
| <i>Passer domesticus</i> - co in tree |       |
| <i>Antrocephalus semipalatus</i> O G  |       |
| <i>Agelaius vociferus</i>             | heard |
| <i>Spizella</i>                       | heard |
| <i>Passerculus sandwichensis</i>      | co    |

Columbus, Tex. Nov. 14  
*Populus balsamifera* abn.  
 Pecan "  
*Juglans nigra* "  
 Hickory several  
*Quercus virginiana*  
 " *nigra*  
 " *lobata*? post oak -  
 " *Worms fedra*  
 " *Crassifolia*  
 " *Celtis*  
 " *Regnoldi*  
*Oreotrochus* 2 species abn.  
*Ilex*  
*Glabraria*  
*Acacia farnesiana*  
*Sesbania corallina*  
*Xanthoxylon clavatissimum*  
*Sabal*  
*Yucca* 2  
*Opuntia vulgaris*  
 " *engelmanni* - rare  
*Pitcairnia*  
*Salix*  
*Tillandsia usneoides*

Nov. 15. to Eagle Lake  
 Nov. 16 Eagle Lake  
*Megaceryle alcyon* abn.  
*Euphagus cyanocephalus* "  
*Agelaius phoeniceus* "  
*Molothrus ater* "  
*Dryocopus pileatus* com  
*Passer domesticus* "  
*Zonotrichia albicollis* "  
*Pooecetes gramineus* "  
*Cardinalis* "  
*Thryomanes*  
*Cinclus carolinensis* com  
*Zonotrichia leucophrys* ?  
*Sayornis phoebe* com  
*Regulus calendula* "  
*Circus hudsonius* com  
*Buteo borealis* 1  
 " *lotatus*? 1  
*Accipiter* 1  
*Cathartes aura* com  
*Coleoptes auritus* 1  
*Avus borealis* feathers, head, abn.  
*Sturnella* com  
*Mimus polyglottos* abn.  
*Cyrtonyx albigularis* 1  
*Fulica* com  
*Falco sparverius* 1  
*Cathartes pensylvanicus* com  
*Ardea herodias* 2  
*Passerculus iliensis* com  
*Oxyura americana* abn.

Nov. 17.

Eagle Lake - 8 a.m.  
big cotton fields at road stop  
about 5 miles from Eagle Lake.

Bonnie - cotton field green.  
half a mile N. of station.

Egypt - big cotton field green  
cotton cane

Glen Flora - all cotton -  
mostly green -

Wharton - cane + cotton -

Nov. 18.

Back to Eagle Lake.

Eagle Lake Nov. 19.

*Anthus pensylvanicus* abn

*Sayornis phoebe*

*Sturnella magna* abn. 11 shot

" neglecta, com 6 "

*Iroderaprotodrepanis* abn

*Himantopus erythrophthalmus* 1

*Lanius*

*Progne*,

a few

*Speotyto*

Eagle Lake

*Chiroloce rosea* abn

*Toxylon pomiferum* abn.

*Populus balsamifera*

*Crataegus*

small pointed

Ibx

sawos at Col-

Pecan

Oaks

Nov. 17.

Eagle Lake - 8 A.M.

big cotton fields at sand stop  
about 5 miles from Eagle Lake.

Bonies - cotton field green.  
half a mile N. of station.

Egypt - big cotton field green  
cotton cane

Glen Flora - all cotton -  
mostly green -

Wharton - cane & cotton -

Nov. 18.

Back to Eagle Lake.

Eagle Lake Nov. 19.

*Anthrus pensylvanicus* abn

*Sayornis phoebe*

*Sturnella magna*, abn. 11 shot

    " *neglecta*, com 6 "

*Iroderaprotodreicolor* abn

*Hirundo erythrogaster* 1

*Lanius* com

*Pooecetes*, a few

*Speotyto*

Eagle Lake

*Cherokee rose* - abn

*Taxylon pondiciferum* abn.

*Populus balsamifera*

*Crataegus* small pointed  
Ibx

Pecan

Oaks

W bayton

|                                   |          |
|-----------------------------------|----------|
| <i>Agelaius vociferus</i>         | afew     |
| <i>Alouatta</i>                   | 1        |
| <i>Nestor carolinensis?</i>       | )        |
| <i>Zenaidura</i>                  | com      |
| <i>Cathartes aura</i>             | "        |
| <i>Cathartes urubu</i>            | "        |
| <i>Buteo buteo</i>                | afew     |
| " <i>lineatus</i>                 | 1 killed |
| <i>Circus</i>                     | com      |
| <i>Falco sparverius</i>           | "        |
| <i>Crotophaga torquata</i>        | 1        |
| <i>Melanerpes erythrocephalus</i> | com      |
| <i>Circus carolinus</i>           |          |
| <i>Sphyrapicus varius</i>         |          |
| <i>Colaptes auratus</i>           |          |
| <i>Sayornis phoebe</i>            | 2        |
| <i>Corvus brachyrhynchos</i>      |          |
| <i>Euphagus cyanocephalus?</i>    | 1        |
| <i>Sturnella magna</i>            | com      |
| <i>Cardinalis</i>                 | "        |
| <i>Passer domesticus</i> in town  | :        |
| <i>Passerculus alaudinus</i>      | "        |
| <i>Melespiza melodia</i> - 1 bird |          |
| <i>Zonotrichia albicollis</i>     | com      |
| <i>Pooecetes</i>                  | "        |
| <i>Harporhynchus rufus</i>        | 1        |
| <i>Thryothorus ludovicianus</i>   | 1        |
| <i>Zenaidura sialis</i>           | le       |
| <i>Mimus polyglottos</i>          | com      |

Eagle Lake Nov. 20

Iyesis - little tree on big prairie  
good place for prairie work.

East Bernard

Bernard Creek -  
*Taxodium*, com. along es.  
leaves brown -



Liberty Nov. 21.

Acer

Zygocodon

Ulmus americana

Ostrya phellos willow  
" pinnata

" latifolia? red

" nigra "

" macrocarpa

" alba

" michauxii shingle

" virginiana

Tilia americana pubescens

Fraxinus americana white ash

" viridis

Pinus taeda

" echinata

Taxodium

Toxylon pomiferum

Diospyros virginiana

Catalpa 2

"

Gleditschia triacanthos

Ilex opaca

" cassini small

Bunelia lanuginosa

Hickoria pector

" aquatica bitter pecan

"

Juglans nigra

Aralia

tr.

Morus rubra

" "

Nyssa

Catalpa

Xanthoxylon dasycarpum

Platynus

Vitis

Smilax

Metasequoia

Rhus toxicodendron

staghorn

Altis

Ostrya

Populus tremuloides

Tremula

Carpinus

Zelkova serrata

Wisteria

Marica

Callocaipa

Max. Mulberry

Betula

Viburnum lentigerum

Cornus

small bush

Pinus palustris

co. of Washington

Zupple gem

Ilex

3d sp.

Liberty & Tazewellton

*Colinus virginianus*  
*Cathartes aura*  
*Catherpes nubilus*  
*Buteo borealis*  
*Tympanuchus nebulosus*  
*Hidrocopus pileatus*  
• *Colaptes auratus*  
• *Cuterebra carolinensis*  
• *Melanerpes erythrocephalus*  
• *Sphyrapicus*  
• *Sayornis phoebe*  
• *Cyanocitta cristata*  
• *Corvus brachyrhynchos*  
• *Stomoxys nigrina*  
*Cardinalis*  
• *Zonotrichia leucophrys*  
*Pipilo erythrourus* heard  
*Trogonota super*  
*Parus carolinensis*  
*Thryothorus ludovicianus*  
*Spizella pusilla*  
*Iridophrocta bicolor*  
• *Wild Turkey*  
*Paroquite*  
*Pidgeons*  
• *Chen hyperboreus*  
*Ardea herodias*  
*Oxyechus voliferus*  
*Muraena migratoria*  
*Sialia sialis*

Two <sup>hogs</sup> were killed 84 & 94  
year in two years <sup>26</sup> years ago  
Mr. Carter killed 22 at night  
with fire light.

• *Cyanocitta cristata*  
• *Dryobates*  
*Dendroica coronata*  
*Anthus pensylvanicus*  
*Pooecetes gramineus*  
*Parus carolinus*  
• *Ivory-billed woodpecker*, a few.  
*Thryomanes*  
*Tatius*  
• *Troglodytes*

- *coccaeli*, 6  
abu

Nov. 24, Carters Ranch

Gators Lake

Ivory bills

Wood ducks

Brant

27, Trinity River

to near Batson

Nov. 28, Batson

Prairie plants

Grass

Baptisia

Melica

Ratibida ?

Saratoga + 7 mi. N.E. to  
Cilwell camp

Dec. 3 - To Roanoke + return.

Dec. 5. Broke camp

Saratoga

Soar Lake

Camp 3 mi N.E. of Sours L.

Dec. 6 -

Jerdon's ranch

Don Griffins

Dec. 7 - Back to Saratoga

Big Thicket plants

Dec. 1.

Pinus taeda

abn.

" palustris

a few

" echinata

"

Taxodium distichum

com.

Quercus alba

abn.

" michauxii

"

" phellos; pin oak

"

" digitata Spanish oak com

" minor

"

Liquidambar

abn.

Nyssa

"

" Tupla guava"

rare

Magnolia foetida

abn.

"

bay

"

"

swet bay

com.

Sassaparass

"

Diispiros

"

Ostryia

"

Carpinus

rare

Peltinus

"

Hickoria

"

"

litter tree

"

"

thick shelled

com.

"

shell bark

"

Juglans nigra

com.

Acer

Zelkova pustulans

|                              |                            |
|------------------------------|----------------------------|
| <i>Ulmus americana</i>       | abn.                       |
| " <i>crassifolia rotata</i>  | -                          |
| <i>Cornus florida</i>        | abn.                       |
| "                            | persimmon "                |
| "                            |                            |
| <i>Viburnum lentiginosum</i> | abn.                       |
| <i>Cratiger</i>              | abn. on prair.             |
| "                            | "                          |
| <i>Ilex opaca</i>            | abn.                       |
| " <i>cassinii</i>            | "                          |
| "                            | "                          |
| " <i>"spiculata"</i>         | some                       |
| <i>Azalea</i>                | com.                       |
| <i>Gala sacra</i>            | "                          |
| <i>Vaccinium</i>             | abn.                       |
| "                            | gallberry                  |
| <i>Callicarpa</i>            | com.                       |
| <i>Cephaelanthus</i>         | "                          |
| <i>Merica</i>                | abn.                       |
| <i>Rhus</i>                  | abn.                       |
| " <i>Cross vine</i>          | stagnon<br>said to be com. |
| " <i>Yellow jessamine</i>    | abn.                       |
| <i>Vitis</i>                 | grape                      |
| "                            | Ratan                      |
| <i>Wisteria</i>              | com.                       |
| <i>Ulmus radicans</i>        | com.                       |
| <i>Heterosperma?</i>         | "                          |
| <i>Rhus toxicodendron</i>    | abn.                       |
| <i>Sinclair</i>              | big                        |
| " <i>rotundifolia</i>        | "                          |
| "                            | little                     |
| <i>Rubus</i>                 | blackberry                 |

|                                  |                        |
|----------------------------------|------------------------|
| <i>Sabal</i>                     | abn.                   |
| <i>Arundinaria</i>               | local                  |
| <i>Ephedrum</i>                  | abn. in thicket        |
| <i>Mitchella repens</i>          | " "                    |
| Tree ferns                       | many species           |
| ground ferns                     | " "                    |
| Mosses                           | numerous               |
| Grass                            | "                      |
| <i>Fraxinus americana</i>        | com.                   |
| " <i>veridus</i>                 |                        |
| <i>Aralia</i>                    |                        |
| <i>Populus</i>                   | Tree                   |
| <i>Rhamnus</i> or <i>Benzoin</i> |                        |
| "                                | " <i>clavaburans</i> , |



Dec. 8, Saratoga - 10 A.M.  
All the way through thicket.  
Bragg - in thicket  
To Cleveland

Dec. 9 - Cleveland  
Navasota 12 P.M.

Dec. 10 - To 16 -  
Out to Mr. Hardyston place

*Didelphis virginiana* - com  
*Tatuzia nozemae* 1, 5 mi. S.W.  
*Sciurus ludovicianus* com  
  
*Neotoma micropus*? com  
*Perognathus hispidus*, signs " "  
*Thomomys brevicauda* abu.  
*Lepus f. alces* com  
    " *f. allwateri* "  
*Lynx* tracks abu  
*Procyon* " "  
*Mephitis* com  
*Spilogale italicola* " "  
*Lutreola* "

Navasota  
Pecan com  
Hickories com  
" "  
*Quercus nigra* com  
" *alba* "  
" pine oak abu  
" *macrocarpa* - overcup apw  
" red oak com  
*Populus deltoides* along river  
*Platimus* apw  
*Ulmus americana* "  
" *crassifolia* "  
*Vigundo occidentalis* "  
*Xanthorhynchus flaviventer* "  
*Robinia aquatica* one each locust abu  
*Cercis* "  
*Celtis* abu  
*Fraxinus* "  
*Crataegus* Red Haw "  
" sugar haw "  
*Flex cassini* ditch bank "  
" "  
*Salix nigra*? dry R.  
" "  
*Totyton pomifera* apw

*Vitis* abn.  
*Zizoma rodrieanus* "  
*Wisteria*  
*Jasminum* 1  
 "Rattan"  
*Smilax rotundifolia* abn.  
 " " berries  
*Rhus toxicodendron* abn.  
*Schultzia*  
*Huesache* a few  
*Phoradendron* abn.  
*Yucca* spec. a few  
*Sabal* "  
*Opuntia engelmanni* "  
 " *vulgaris* "  
*Zillandria menesides* abn.  
*Baptisia*

Navasota Dec. 10-15  
*Aix sponsa* 3 Dec. 11  
*Ardea herodias* 1 Dec. 12  
*Colinus v. texanus* <sup>Onyxus</sup> <sup>3 Dec. 12.</sup> 9  
*Zenaidura macroura* 10 Dec. 15  
*Cathartes aura* abn.  
*Cathartes aura* ~~urubu~~ "  
*Falco sparverius* co  
*Syrneum subalpinum* "  
*Hypobates subsercans* "  
*Sphyrapicus varius* co  
*Melanerpes erythrocephalus* "  
*Centurus carolinus* "  
*Coephalus pipatus* "  
~~Crotophaga sulcirostris~~ "  
*Sydurus poolei* co  
*Muscicapa striata* in some  
*Cyanocitta cristata* abn.  
*Corvus brachyrhynchos* "  
*Euphagus carolinus* "  
*Dumetella carolinensis* "  
 " *neglecta* "  
*Astragalus tristis* "  
*Passer domesticus* in some  
*Poocetes g. confinis* "  
*Passerulus s. alaudinus* a few.  
*Zonotrichia albicollis* abn.  
*Spizella pusilla* a few  
*Melospiza cinerea* "  
*Passerella iliaca* co.  
*Pipilo erythrrophthalmus*  
*Cardinalis cardinalis* abn.

*Amphispiza bairdii* 9, Dec. 11  
*Lanius ludovicianus* con.  
*Dendroica coronata* "  
*Anthus pensylvanicus* abn.  
*Mimus polyglottos* "  
*Toxostoma rufum* "  
*Thryothorus ludovicianus* "  
*Thryomanes* "  
*Oblorochilus hiemalis* 1  
*Baeolophus atricristatus* con.  
*Parus carolinus* "  
*Regulus calendula* "  
*Hylocichla* "  
*Sialia sialis*

New Orleans Dec. 18<sup>th</sup>  
*Poecilodryas* a few  
*Colymbus maculatus* 2  
*Argel aleyron* 1  
*Megascops asio* con  
 Black rat bats abn.  
*Sturnella* abn.

Dec. 14  
Nevasota, 4:35 P.M.  
Hempstead  
 Big prairie  
Houston - Hotel Bragg Co.  
Dec. 17 Houston 6:30 A.M.  
Morgan City  
 Tupelo gum abn.  
 Cypress "  
 Magnolia (bay) "  
 Myrica "  
 Palmetto "  
 Cherokee Rose "  
New Orleans 9 P.M.  
Dec. 18 New Orleans, 9:25 A.M.  
 Oranges ripening  
 Bananas not posted  
 Love off of Cypress & deciduous  
 trees "  
 Iodine  
*Magnolia* *partida* abn.  
 Magnolia (bay) "  
 Tupelo gum "  
 Myrica "  
*Giliastrum virginianum* "  
 " " "  
 Sabal " "  
*Acacia* " "  
*Azadirachta* " "  
*Illicium* "

Bay St Louis

Motile *extensis*

Swamps of

*Taxodium*

abn

*Magnolia*

(bays)

abn

"

in places

-

*Nyssa*

*Populus* gum

abn

*Myrsinace*

abn

*Entelox*

(red berries)

-

*Sabal*

-

*Acuminaria*

"

open piney woods again

-

Greenville - getting dark.

Montgomery - dark -

Dec. 19

Greenville, S.C. daylight

traces of snow

Blacksburg - more snow

scrubby pines - mix -

Poor woods + fields

soil washed + barren

Charlotte N.C. 9:20 AM.

Cotton the main crop

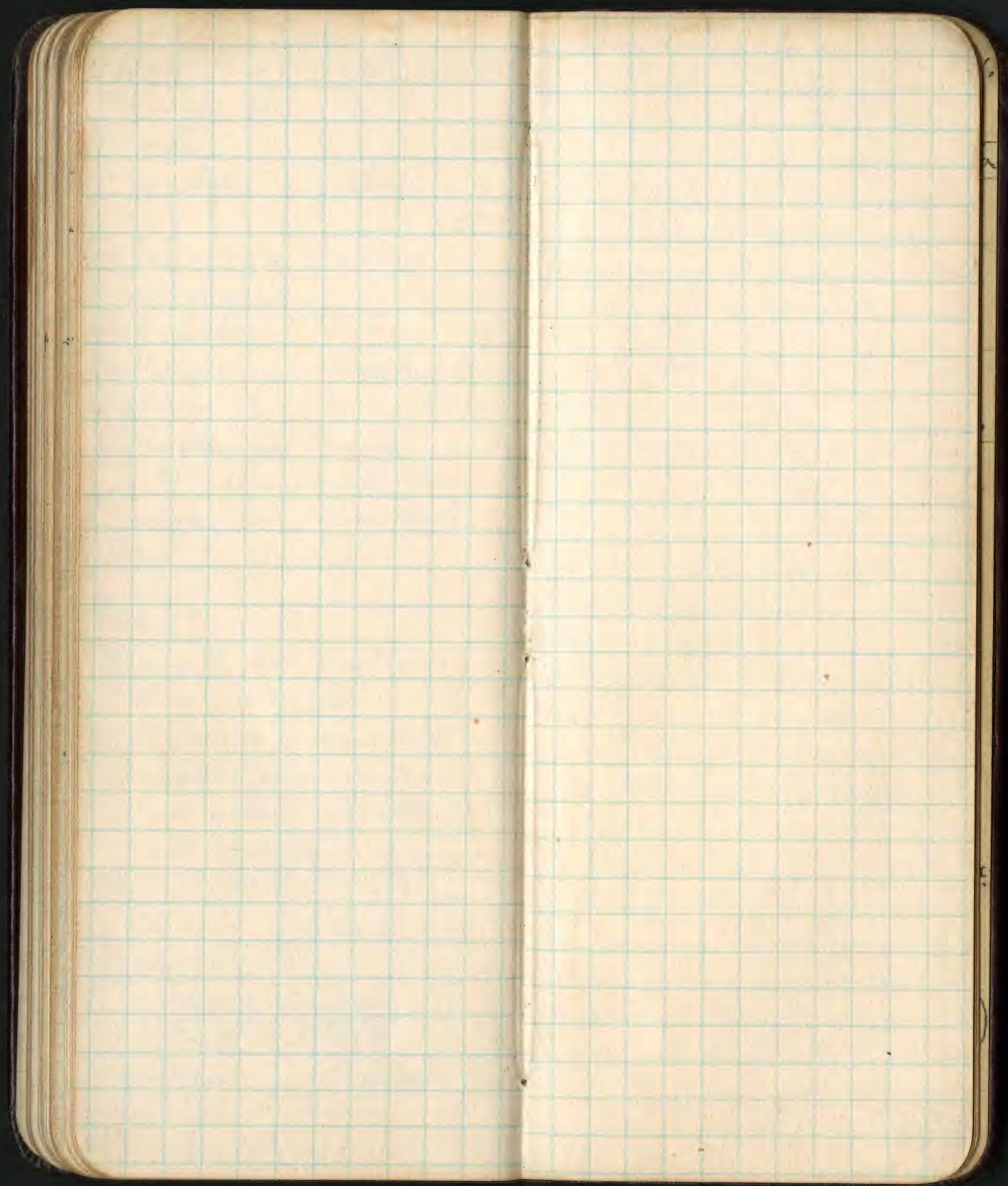
Danville Va.

more snow

foot hills

Orange - dark, h.

Washington.



*Panzerluts monachus*

F. C. Stephens, Red R., N. M.,  
editor of the Prospector  
Wants Fauna of N. M.

### Modification of Zones

Altitude

Latitude

Base level

Slope exposure

Steepness of slope

Dryness

Base rock

Soil cover

Soil color

Broad or narrow slope

Shelter - of slope angle

" - of rocks

" - of vegetation

Cold streams, surface, subterranean

Cold air currents - canyons

Wind -

Narrow canyon bottom

Wide canyon bottom

Steepness of canyon bottom

Burns

Transportation Orders <sup>1904</sup>  
Authorization no. 85, July 1, 1904

No. 20445, July 1. \$55.05

Washington to Two Bridges

No. 20446 - Albuquerque to El Paso \$10.00

" 20447 - Valentine & San Antonio 13.75

" 20448 - Houston to Washington 37.30

Manuel Mondragon  
Taos, N. Mex.

C. L. Pollard, Espanola

J. J. Dozier, Espanola  
Max West 3610 Morgan Ave.

C. C. Battelle, Espanola  
a trooper - with problems

Stafford, Espanola

Juan Lopez "

Beverly - Bu. Forestry  
met at Santa Fe.

Geo. J. Stafford & Son,  
Espanola

G. W. Bond & Bro., Espanola

M. A. Ernst, Boquillas

McCloskey, Louisville, Colo.  
lockbox 11

Mrs. M. A. Surber, Carter Point

Tom Harley - Riveronda  
Los bear trap

Henry Mathee, trooper  
Columbus, Tex. ~~boots \$6.00~~  
~~shalls \$3.00~~

Mrs. May Steadman

Columbus - <sup>wants plots of hotel</sup>

Samuel Neel, Seguin, Tex.

Jim Sparks, Eagle Lake, Tex.

Ike Howell - Bay City, Tex.  
a bear hunter -

W. O. Victor, Wharton, Tex.  
for bear & wolves &  
gray fox.

Jim Dickson - dogger, Wharton  
Judge Barber, for bear  
Wharton, Tex.

J. L. Browners, Seguin

J. F. Lyndel Clark - for rats on  
Fredericksburg, Tex. <sup>bear & wolves</sup> & for pigeons

W. S. Miller, Columbus, Tex.

Judge Mansfield,  
Columbus, Tex.

A. W. Carter & E. R. Morgan  
Tarkington, Texas, Liberty Co.

Tommy Carr <sup>or</sup> <sup>n. of Beulah</sup>  
Will Berryhill <sup>have killed bear lately</sup>

Thomas W. Byars, Columbus, Tex.,  
lives 7 miles S.W. on Shull Cr.  
gets Coyotes & wolves -

Tom J. W. Tinkles, Rock Island, Tex.  
for bear

John Redmon, Tarkington, Tex.

Mr. Charles Hardisty, Navasota  
C. Elskamp,

2nd Bullwood Bull, Fertilization,  
clothes and papers

T. S. Palmer - 1604 - 13th

Amisito Boldez

Augustin Balande

Photos of self & wife & daughter  
Send prints for him to  
W<sup>H.</sup> Johnson - agent at  
Dulce N.M.

Mrs Chas P. Koch  
San Antonio, Texas  
211-213, S. Alamo St.

J. P. Bowden  
Cleveland, Tex  
Son-in-law of Judge Hightower

J. Wright, Cleveland  
Forestry bills & working plan  
Judge Hightower, Cleveland

J. J. Flowers, Saratoga  
Send photo of girls  
Get bear skins.

W. E. Watson

Evergreen, Texas  
\$1, San Jacinto Co.  
for Gray fox. other skulls 50<sup>00</sup>  
Can get Cynomys  
Wolf skulls 50<sup>00</sup>

~~650 x 180 x 100~~

630 x 180 x 90

590 x 20 x 86 6

610 x 180 x 88 9

Hay, Burner

Josh Flowers

Wiley & Sam Griffen Bros

Verden Settlement  
near San Saba

Ben Hooks, Kountz

J. B. Hooks

means. 1404 W.

Chas. Peterson

Espanola - a good man

Capt. Castle

825 W. Ave

Telephone N. 2133 2/2

